HIGH SPEED TEXT SEARCH SYSTEM

HSTS SOFTWARE LISTINGS

VOL. 1 OF 5

Master Computer Support

BTAT

NGA review(s) completed.

	HSTS MASTER COMPUTER SOFTWARE LISTINGS	2
	SL120100	
	VOLUME 1 of 5	
	A AND THE PARTY OF	
	Prepared for:	
	Central Intelligence Agency Washington, DC 20505	
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		CTAT
	R80-016 March 1980	STAT
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	•	
Approved For Release 2005/07/28	: CIA-RDP85-00514R000100030001-3	

INIT- MACRO-M1110 27-MAR-80 13:21 TABLE OF CONTENTS Ar

Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

MACRO'S-AND-CONSTANTS-ASSEMBLY-TIME-DATA-DEFINITION-INITIALIZE-MASTER-COMMON

10- 2· 11- 23 12- 83

INIT --- MARTIN M1110 27+MAR-80 13: Approved For Release 2005/07/28 LCIA-RDP85-00514R000100030001-3

```
INIT- --- MAGRO-M1110 27-MAR-80 13:2 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                 .SBTTL - ASSEMBLY-TIME DATA DEFINITION
      23
24
25
26 000000
27 000000
28.
29 000000
30 000140
                                                     : DUMMY FDB
                                                                FDOF$L
FCSBT$
                                                                FDBDF$
FDRC$A
FDBK$A
                                                     ÉDB∶
                                                                           FD.RLM-
      31
32
33
          000140
                                                                           BUFFER, N. BUFB, EF. 10, IOSTAT
          000140
                                                                FDOP$A:
                                                                           DPLUN
      34 000140
35
                                                                FSRSZ$ 0
                                                     ĴDUMMY-NAME-BLOCK-TO GET-DIRECTORY-FID°S
DUMNBK: NMBLK$ ....SY,0
          000140
                                                      DIRECTORY NAME DESCRIPTORS
      39
      40
          000176
                     000005
                                                     DIRDS1: .WORD
                                                                           DIRDTA
      41
42
          000200
000202
                     000202°
                                                                .WORD
                                                     DIRDT1: .ASCII /07.43/
                                    067
          000205
                         064
                                    135
                                                                 .EVEN
      43
          000210
000212
                                                                .WORD
                                                                           5
DIRDT2
      44
                     000005
                                                     DIRDS2:
                     000214
      45
          000214
                                    067
                                               054
                                                     DIRDT2:
                                                                .ASCII
          000217
                         065
                                    135
      48 000222
49 000224
                     000007
                                                     DIRDSE:
                                                                . MORD
                     000226°
133
060
                                                                .WORD
                                                                           DIRDT3
          000226
000231
                                   063
054
                                              060
061
                                                     DIRDT3:
                                                                .ASCII
                                                                           ZE300.1]Z
          000234
                         135
      51
                                                                 EVEN.
     51
52-000255
53-000240
54-000242
                     000007
                                                     DIRDS4:
                                                                .WORD.
                                                                           DIRDT4
                     0002423
                                   063
054
                         133
                                               060
                                                     DIRDT4: .ASCII. /1300.23/
                         969
                                               062
                         135
          000250
                                                                 .EVEN
      55
56
57
58
59
                                                     ; DIRECTORY ADDRESS TABLE DIRTBL: .WORD DIRDS1 .WORD DIRP74 .WORD DIRDS2
         000252
000254
                     0001761
                     000000G
      60 000256
61 000260
                     0002101
                                                                           DIRP75
                     000000G
                                                                 . WORD
         -000262
-000264
                     000222
                                                                . MORD
                     000000G
          000266
                     000236
                                                                 . WORD
                                                                           DIRDS4
                     000000G
      65
          000270
                                                     MISC LOCATIONS
                                                                                      :DUMMY BUFFER:
:I/O:STATUS:BLOCK:
                                                     BUFFER:
IOSTAT: .BLKW-
          000272
      69
          000272
                                                     DMCIN TASK NAME TABLE
                                                     ĎMCTBL:
          000276
```

INIT----MA M1110 27-MAR-80 13:2 Approved For Release 2005/07/ CIA-RDP85-00514R000100030001-3 ASSEMBLY-T NE- DATA DEFINITION

PUTSSQ-

INIT----MHCRO-M1110 27-MAR-60 13:21 PAGE-14
INITIBLIZE M8STSR-COMMON- Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

.END INIT . VIRTUAL-MEMORY-USED: 6142-WORDS- (-24 PAGES)
DYNAMIC-MEMORY: 7028 WORDS- (-27 PAGES)
ELAPSED-TINE: 90:00:40
INIT:3HIT-SP-028,119,116,1NIT-

THE PARTY OF THE P

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10- 2- SCHEDULER-ROOT SEGMENT-

DATBUF:

	D-M1110 27 DT-SEGMEŅT-		13:22∙ F '		ed For Re	elease 2005/07/28 : CIA-RD	P85-00514R000100030001-3	
33 0003 34 0003 35 36 0003	20	000000G	. •	. MSCHED:	FINIT\$ MOV:	#BN, R5	:GET-OUR-BST-ADDRESS	
37 0003 38	30 016505	000000G	•	;	MOV-	BSTPTR(R5),R5		
39 0003 40 0003 41 0003	42· 012765 50 005065	000001 000000° 000124			MOVB · MOV · CLR ·	#BS.OPN.B.STTE(R5) #FDB.B.SFDB(R5) B.HRLW(R5)	:BATCH:IS:OPEN: :SCHEDULER'S:FDB: :INIT:HRL:WORDS:	
43	54 012765	000240	000120	;	MOV.	#S.HRL.B.HBLK(R5)		
44 0003 45 0003 46 0003 47 0004 48	66 112762 · 74 112762 ·		000002 000003		CALL: MOVB: MOVB: CALL:	GETFRE **XMSCHED.2(R2) **4.3(R2) PUTSSQ	:PRIME:SSQ TO:LOOK:- : AT:QUQ:	
49 0004 50	Ø6				ALTP\$S⋅	,#40.	;RUNNING PRIORITY	
51 0004 52 - 53	24 000167	000000G			JMP.	STTENT	#START - STATE - TABLE -	
54	000320			-	.END	MSCHED.		

B.QLSZ

000106

010 FD.F11=-040000

ROWER BUSINESS

149							
150 000370 151	016504	000046	. •	DESCHD:	MOV-	B.CNTX(R5).R4	:START-OF-DECISION-NODE-
152 - 000374	005764	000000		1\$:	TST.	DN:DCK(R4)	:END.OF.NODE?.
153 000400	100002				BPL.	2\$;NO:
154 000402·	010446			2\$:	CALL. MOV.	CRASH R4(SP)	:YES - CAN'T HAPPEN :SAVE R4
156 000406	010446			2 TP +		@DN.DCK(R4)	:CALL · DECISION · ROUTINE ·
157 000414	012604				MOV.	(SP)+,R4	:RESTORE · R4
158 000416	103403				BCS.	3\$: MATCHED ·
159 000420	062704	000010			ADD.	#DH.SIZ,R4	:NO-MATCH TRY-NEXT ENTR
160 000424	000763				BR	1\$	
161	016465	000000	000046	; 3\$:	MOV.	DN:NXT(R4).B:CNTX(R5)	:MATCHED - SET NEXT NODE
162·000426 163	016465	000006	000046		LIO A -	DM:MAT(R4).B:CMTA(R5)	THATCHED - SET MEXT NUDE:
164				4			
165				CALL	DECISIO!	N-SATISFIED-ROUTINE-	
166						KET-ADDRESS-(UNLESS-FOLL)	DWING-A-TIMEOUT)
167				: R5=	BST ADD	RESS.	
168 169 000434	010446			,	MOV.	R4(SP)	:SAVE-R4
170 000434	010440					@DN.ROT(R4)	: DECISION - SATISFIED - ROUTI
171 000442	012604				MOV.	(SP)+,R4	:RESTORE R4
172 ⋅				ž.			
173 000444					CALL.	TRACE.	:TRACE · THIS · NODE ·
174 175 000450	000730				BR	TSTDND.	: CHECK - NEXT - NODE - TYPE -
176	000138				UK	י עווע ז כו	CHECK MEAT NUDE TIPE

STT-----MACRO-M1110 27-MAR-80 13:23 PAGE-12-1 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

ENDM NTERM

```
STT ---- MF --- M1110 27-MAR-80 13:23 PAGE-14 STATE TRANSION TABLES
                             4
5
6
7
                  8 000452-
9 000452-
9 000452-
10 000454-
11 000464-
12 0004514-
15 000524-
16
17
18
19 000534-
20 000534-
21 000564-
23 000564-
24
25 000566-
28 000566-
28 000566-
29 000566-
30 000662-
33 000662-
33 000662-
34 000662-
37 000662-
38 000662-
39 000662-
47 48 49 000662-
48 49 000662-
47 49 000662-
48 49 000662-
47 48 49 000662-
48 49 000662-
48 49 000662-
49 000664-
50 000664-
51 0006664-
52 0006664-
53 0006664-
54 000666-
55 0006716-
55 000716-
56
                                                                                                                                                                                                     TOPHOD:
                                                                                                                                                                                                    MHODE:
                                                                                                                                                                                                     ŚHRTCL:
                                                                                                                                                                                                     DHODE -
                                                                                                                                                                                                    DHODE
                                                                                                                                                                                                   NTERM-
                                                                                                                                                                                                    QUQENE:
                                                                                                                                                                                                   DHODE -
DHODE -
DHODE -
NTERM-
                                                                                                                                                                                                   ;
SMDBUR:
                                                                                                                                                                                                   DHODE -
DHODE -
HTERM-
                                                                                                                                                                                                   BCHEMP:
                                                                                                                                                                                                 DHODE :
DHODE :
NTERM :
```

```
Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                 .SBTTL . STATE . TRANSITION . TABLES .
    ENTRY-FROM-SCHEDULER-ROOT-TASK
    WAITING FOR A QUQ ENTRY OR AN EXTERNAL COMMAND.
                                                                                  ; INIT-SAYS TO INITIALIZE:
; CLOSE · COMMAND · FROM · CONSOLE · ;
; SUGAR · BOTH
; SUXX · DONE
; SEARCH · DONE · ;
; SINIT · TVO - SEE · ABOUT · SHORT · CYCLE
 WHODE: XMSCHED, 0, STTINT, WN, WTSSRC-
WNODE: XBATCH.1, CNOP, DN, BCHEMP-
WNODE: XMSCHED, 4, TULQUO, DN, QUOENE-
WNODE: XMSCHED, 1, SSUXDN, DN, BCHEMP-
WNODE: XMSCHED, 2, SPRDON, WN, TOPNOD-
TIMOUT: CNOP, DN, SHRTCL
 ; SEE-IF-WE-CAN-DO-A SHORT-CYCLE-
                                                                                                                                               12:
                 CBEMPT, TULQUQ, DN, QUGENE
SGISIN, STRTSC, DN, GOCDBU-
TRUE, TULQUQ, DN, QUGENE
                                                                                   *BATCH-NOT EMPTY- GO TO QUQ ...
*SEARCH-GO IS-IN- DO-SHORT-CYCLE
*ELSE-GO-TO-QUQ
    SEE - IF - THERE - IS - ANYTHING - IN - THE - QUQ
                 QUQEMP,CHOP,WH,TOPHOD
CMDBQU,CHOP,DH,SMDBUR
TRUE,PRBUHL,WH,UPRBRS
                                                                                   :QUQ-EMPTY NOW-
:GOT-MDBU-REQUEST-
:GOT-QUQ-- PROBE-UHL SIZE
 : MDBU-REQUEST-IN-- SEE-IF-BATCH-EMPTY-
                CBESTT,STMDBU,DH,CSRGMD
TRUE,ROMDBR,WH,QTOTCL
                                                                                  ;BATCH-EMPTY- DO-MDBU-
;NOT-EMPTY - REQUEUE MDBU, CLOSE-
CONSOLE BATCH CLOSE COMMAND IN -
SX* DONE IN - CLOSE BATCH IF NOT EMPTY
                CBESTT, TULQUO, DH, QUQENE TRUE, BTCHCL, WH, QT0TCL
                                                                                  :BATCH-EMPTY-- GO-TO QUQ:
:BATCH-NOT EMPTY-
   QUQ-ENTRY-IN-- SEE IF-HLMERG HAS-ROOM-FOR-UHL-
ÚPRBRS:
TIME ·
WHODE ·
ITME
MNODE - MMSCHED.4.CNOP.WN.UPRBRS
WNODE - MMSCHED.4.CNOP.WN.UPRBRS
WHUMERG.2.MRGGRY, UN. 0TØRSP
WHUMERG.3.CNOP.DN. RMBIGO
TIMOUT - PRTMSG. WN.UPRBRS
                                                                                  #PURGE:THESE:SSQ:ENTRIES:
#UHL:WILL:FIT:
#UHL:WILL:NOT:FIT:
   GAVE-QUERY-TO-QT0 TO-MERGE
```

: QTS-HAS-TRANSLATED - SEE-IF-NEXT-BATCH CAN-BE-OPENED

TIME 5*60.

WHODE XDMCIN,1,SFOSIN,DN,AFOSINTIMOUT PRTMSG,WN,WTSFOS

: SEE-IF-ALL-FOS-IN-

:ONE - FOS - REPORTED - IN

A STATE OF THE STA

:QTØ MERGED - MERGE UHL

BNE -

ŗ

005152

THE THE PARTY OF T ASSESSMENT OF THE PARTY OF

54 30 1 B

FIRE PARTY IN

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STATE TABLE SUPPORT ROUTINES

335 336 337 338 007134 012700 006746' 339 007140 341 007144 342 007150 343

PRINT MSG UPON TIMEOUT PRTMSG: MOV #MSG3.R0 CALL COMSG

:MESSAGE - TO - CONSOLE

CALL: TRCISO:

;FORCE · A · TRACE · LINE ·

919

į

. .

VIRTUAL MEMORY USED: 7295 WORDS (29 PAGES)
DYNAMIC MEMORY: 8084 WORDS (31 PAGES)
ELAPSED TIME: 00:01:40
STT.STTV-SP-E20.11P.M.STT.STTN.STTD.STTC.STTS.END

10- 2 MASTER COMPUTER COMMON

DEVICE-UNIT-INDEX-

			HK-20	14:0	b 1	MH6E-13-2-			
STER - COM	PUTER - C	_UMMUN ·				Approved For F	Relea	ase 2005/07/28 : CIA-RDP85-00514R000100030001-3	
303 00	5400 0	300000				. UNINDX: . WORD	٥.	;FN.FSA···	
304 00	5402 - 8	300000			•	.WORD	0	:FN.FSB	
305 06	5404 8	300000				.WORD	0	;FN.FSC	
306 00	5406 8	300000				.WORD	0	:FN.QLS	
307 00	5410 8	300000				.WORD	0	:FN.MHR	
308 00	5412 - 8	300000				.WORD	0	:FN.EMA	
309 00	5414 8	300000				.WORD	0	:FN.EMB	
310 00	5416 8	300000				.WORD	0	:FN.EMC	
311 00	5420 6	300000				.WORD	0	:FN:QRY	
312-00	5422 - 8	300000				.WORD	0	:FN.DBS	
313 00	5424 8	300000				.WORD	0	:FN.MFO	
314 00	5426 8	300000				.WORD	0	;FN.DBR·	
315 00	5430 0	300000				.WORD	0	;FN:SF0	
316 00	5432 - 6	300000				.WORD	0	;FN.SF1	
317 00	5434 €	300000				.WORD	0	;FN.DB0	
318 00		300000				.WORD	0	;FN.DB1	
319 00	15448 B	300000				.WORD	0	;FN:DHR·	
320 00	5442 · 6	300000				.WORD	0	:FN:SHD	
		_							

.1.

```
MCOM- · · · MF · M1110 27
MASTER · COMPUTER · COMMON :
                                      27-MAR-80 14:8Approved For Release 2005/07/29 CIA-RDP85-00514R000100030001-3
                                                                                                       -4(R3)
PC:
       715 010070
716 010074
717
718
719
720
721
722
723
724
725 01002
727 01002
728 010104
729 01010
730 010110
730 010116
732 010122
733
734
735 010124
736
737
738 010130
739
749
                             005363
000207
                                                                          RLSLOK::DEC-
RTS-
                                                                                                                                      :RELEASE INTERLOCK
                                                                              RANGE · CHECK · PACKET ADDRESS ·
                                                                              INPUT - R2 = ADDRESS OF PACKET-
OUTPUT - GOOD: RETURN
BAD: CRASH
                              020227
103002
                                                                          RHGPKT: CMP
                                                                                                        R2,#PKTSTT+
                                                                                                                                      :LOWEST-PACKET-
                                             0056541
                                                                                         BHIS:
CALL:
CMP:
BLOS:
CALL:
RTS:
                                                                                                        R2.#PKTSTT
1$
PKTERR.
R2.#PKTEND.
2$
PKTERR.
PC.
                              020227
101402
                                             006714"
                                                                           1$:
                                                                                                                                      :HIGHEST PACKET
                              000207
                                                                          2$:
                                                                                                                                      :PACKET PROBLEM - CRASH
                              000167
                                            177775
                                                                          PKTERR: JMP
                                                                          MCOMSZ:
                              000001
                                                                                         .END
```

```
. MACRO : M1118 27-MAR-80 14: Approved for Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
SYMBOL - TABLE
BITVAL = - 000000
                                            000122
                                 B.HRLR
                                                             010 FA.EXT= 000004
                                                                                                   FN:MHR
                                                                                                              000010
                                                                                                                                   F.SPUN=-000074
           000001
                                 B.HRLW
                                            000124
                                                                                                   FH.HMB
                                                            010 FA.NSP= 000100
                                                                                                              000044
                                                                                                                              P11
                                                                                                                                   F.STBK= 000036
                                 B.HMBR
B.HQRY
BITE
           000002
                                            000052
                                                             010
                                                                  FA.POS = 010000
                                                                                                   FN.QLS
                                                                                                              000006
                                                                                                                              011
                                                                                                                                    F.UNIT=
 BITIO
                                            000232
                                                            010
                                                                  FA.RD -- 000001
                                                                                                   FH.QRY
                                                                                                              000020
                                                                                                                              011
                                                                                                                                   F.URBD=
                                                                                                                                              000020
BITII
           004000
                                 B.OLSZ
                                            A00106
                                                             010
                                                                  FA.RWD=
                                                                             004000
                                                                                                   EN.SEA
                                                                                                                              011
011
                                                                                                              вовозо
                                                                                                                                     · VBN ·
                                                                                                                                               000064
                                 B.QMAF
                                                                 FA.SEQ= 040000
FA.SHR= 000040
FA.TMP= 000020
                                            000234
                                                             010
                                                                                                   FN.SF1
                                                                                                                                   F.VBSZ
                                                                                                                                              000060
                                            000316
 BIT13
           020000
                                 B. OSPI
                                                            010
                                                                                                   FN.SHD
                                                                                                              000042
                                                                                                                              011
                                                                                                                                   GETFRE
GETQUQ
                                                                                                                                                               014.
 BIT14
           040000
                                 B.QTTM
                                            000076
                                                                                                   FO.APD=
                                                                                                              000106
                                                            010
                                                                                                                                              007012RG
                                                                                                                                                              014
014
BIT15
                                                                 FA.WCK= 020000
FA.WRT= 000002
           100000
                                 B.QUQF
                                            000056
                                                            010
                                                                                                   FO.MFY=
                                                                                                                                   GETSSQ
GETTOP
                                                                                                             000002
                                                                                                                                              007200RG
BIT2
BIT3
           000004
                                 B.SFDB
                                            000010
                                                            010
                                                                                                   FO: RD: =
                                                                                                             000001
                                                                                                                                              007644R
                                                                                                                                                               R14
           000010
                                                            010 FDINDX
010 FD.BLK=
                                 B.SIZE
                                            000222
                                                                             005240R
                                                                                                   FO.UPD=
                                                                                                             0000006
                                                                                                                                   HRSTEG
                                                                                                                                              000632RG
 BIT4
           000020
                                 B.SHDF
                                                                            000010
                                                                                                             000016
005020R
                                                                                                   FO. URT=
                                                                                                                                    IMPLID
                                                                                                                                              007354R
007362R
                                                                                                                                                               014
BIT5
                                                            010 FD.CCL= 000002
010 FD.COM= 020000
           000040
                                 B. SSD.
                                            999994
                                                                                                   FSANAM.
                                                                                                                              014 IMPLOP
BIT6
           000100
                                            000050
                                                                                                   ESBNAM
                                                                                                             005030R
                                                                                                                                   LDAY
                                                                                                                                              000634RG
 BIT7
                                                                                                                                                               P14
           000200
                                 B.STAT
                                            000044
                                                            010 FD.CR = 0000002
010 FD.DIR = 000010
                                                                                                             005040R
                                                                                                                              014
                                                                                                                                   LDSTAT
                                                                                                                                              000522RG
BITS
           000400
                                 B.STTE
                                            000053
                                                                                                   F.ACTL=
                                                                                                             000076
                                                                                                                                    LHOUR
                                                                                                                                              000636RG
                                                                                                                                                              014
BIT9
           001000
                                                                 FD.FID.
                                                                            000000
                                 B.UDOO
                                            000110
                                                            010
                                                                                                    ALOC-
                                                                                                             000040
                                                                                                                                              000456RG
                                                                                                                                   LHSTAT
                                                                                                                                                               014
                           014 CDSTAT
014 CF.B0
014 CF.B2
 BUDEEL
           005604RG
                                                            014
                                                                                             003
                                                                                                  F.BBFS = 000062
F.BDB = 000070
                                                                                                                                              007772R
                                                                                                                                                              014
           005444RG
 BLDNFL
                                            000070
                                                                  ED.ETH=
                                                                             000001
                                                                                                             000070
                                                                                                                                   LIJSTAT
                                                                                                                                              000566RG
                                                                                                                                                              014
RSTRTR
           000774RG
                                            000067
                                                                  FD.FVR
                                                                             000004
                                                                                             003
                                                                                                  E:BGBC=:000057
                                                                                                                                              000004
           001004R
BST0
                           014
014
                                                                            040000
000010
                                 CF:84
                                           0000066
                                                                  FD.F11=
                                                                                                     .BKDN=
                                                                                                             000026
                                                                                                                                   MAPBLE
                                                                                                                                              007316R
007304R
                                                                                                                                                              014
           001776R
002770R
                                CF.B6 = CF.DR0=
BST2
                                            000065
                                                                 FD.INS=
FD.ISP=
                                                                                                    .BKDS= 000020
.BKEF= 000050
                                                                                                                                    MAPBNB
                                                                                                                                                              R14
                           014
                                           000064
                                                                            002000
                                                                                                                                   MAPEXT
                                                                                                                                              007350R
                                                                                                                                                              014
BST6
           003762R
                           014
                                 CF.DR1=
                                           000063
                                                                  FD.LEN-
                                                                            000010
                                                                                             003 F.BKP1 = 000051
                                                                                                                                   MCOMSZ
                                                                                                                                              010130R
                                                                                                                                                              014
                                                            014
                                 CHSTAT
                                            000302RG
                                                                 ED.MNT=
                                                                            100000
                                                                                                  F.BKST= 000024
F.BKVB= 000064
                                                                                                                                   MEDNAM
                                                                                                                                              005140P
BS:DBU=
           000004
                                 CH.AND=
CWSTAT
                                            000001
                                                                  FD.OSP≔
                                                                            004000
                                                                                                                                   MHRHAM
                                                                                                                                              005060R
BS: INA=
                                            000412RG
                                                            014 FD.PLC= 000004
                                                                                                                                                              014
                                                                                                     CHR - -
                                                                                                             000075
                                                                                                                                              равата
BS:OPH=
           888881
                                 DBRHAM
                                            005150R
                                                                  FD.PRN= 000004
                                                                                                  F.CNTG= : 000034
                                                                                                                                   NB.DEV=
                                                                                                                                             000200
                                 DBSLEN:
                                           000116
                                                                 FD.PSE = 010000
                                                                                                  F.DFNB= 000046
F.DSPT= 000044
                                                                                                                                   NB.DIR- 000100
                                                                                                                                                                      BYTE0 =
           вавава
                                 DBSNAM
                                            005130R
                                                            014 FD.RAH= 000001
                                                                                                                                   NB:NAM≃
                                                                                                                                              000004
BYTE 1
                                 DB0NAM
                                            995299R
                                                            014 FD.RAN= 000002
                                                                                                     DVNM= -
                                                                                                             000134
                                                                                                                                   NB.SD1= 000400
NB.SD2= 001000
                                 DB1HAM
DHRHAM
                                            005210R
BYTE2 -=
           0000002
                                                            014 FD.REC=
                                                                            000001
                                                                                                  F.EF8K= 000010
F.EFN = 000050
F.EO8B= 000032
                                            005220R
                                                            014 FD.RWM= 00000:
                                                                                                                                   NB.SHM= 000040
NB.STP= 000020
BYTE4
           природа
                                 DH:BF0
                                            000002
                                                            005 FD.SDI- 000020
                                                                                                                                                               BYTE5
           000005
                                                            005 FD.SQD= 000040
005 FD.TTY= 000004
                                 DH.BF1
                                            000004
                                                                                                  F.ERR = 000052
F.FACC= 000043
                                                                                                                                   NB.SVR= 000010
NB.TYP= 000002
NB.VER= 000001
BYTE6
BYTE7
           000006
                                 DH.CTL
DH.DMC
                                            000000
                                                                            000004
                                                           005 FD. UBH = 000005
005 FF. CHR = 000005
014 FF. NV = 000003
014 FF. RUD = 000001
014 FF. RUD = 000001
           000007
                                                                                                                                                               2771 114
                                            000010
                                                                                                    FFBY= 000014
           000010
                                 DH.FLG
DIRP31
BYTER.
                                            000006
                                                                                                                                                              014 ·
                                                                                                  F: FNAM= - 999119
                                                                                                                                   NFREEP -
N.BFAC=
BYTE9
           000011
                                                                                                  F.FNB = 000102
F.FTYP= 000116
                                            005320RG
                                                                                                                                             0000004
BYTVAL =
           000012
                                 DIRP32
                                            005326RG
                                                                                                                                   N.BHGH= 000006
N.BTCH= 000004
B.BSTA
                                                                                                 F.FYER = 000120
F.HIBK = 000004
F.LUN = 000042
F.MBCT = 000054
                           010 DIRP74
           000054
                                            005304RG
B. CHTX
           000046
                           010
                                 DIRP75
                                                                                                                                   N:BUFB= 004000
N:BUFW= 002000
                                                            013 FF.SPC=
013 FNDMAT
013 FNINDX
013 FN.DBR
B.CQUQ
           000060
                           010
                                 DN: DCK
                                            000000
                                                                            999994
B.FEMA
B.FEMB
           000132
                           010 DH:HTP
                                            000004
                                                                             007340R
                                                                                                                                   N.DID = 000024
N.DVM= 000032
N.FID = 000006
N.FNAM= 000006
                                                                                            014 F.MBC1= 000055
011 F.MBFG= 000056
011 F.NRBD= 000024
011 F.NREC= 000030
           000142
                           010 DH.HXT
                                            000006
                                                                            004754R
B.FEMC
           000152
                           010 DH.ROT
010 DH.SIZ
                                            000002
B.FFSA
           000202
                                                                                                                                                        013 EN.DBS
                                            000010
                                                                            000022
B. FESB
           000212
                           010 DONEQ.
010 DVINDX
                                            007666R
                                                            014 FH.DHR
                                                                             000040
                                                                                                                                   N.FOS -- 000764
N.FTYP=- 000014
B.FFSC
           000222
                                           005334R
                                                                                            011 F.OVBS= 000030
011 F.RACC= 000016
                                                            014 FN.EMA
                                                                             000012
B. FMHR
           000172
                           010 EMANAM
                                           005070R
                                                            014 FH.EMB
                                                                                                                                   N.FVER= 000016
N.NEXT= 000022
B.FQLS
                                                                                            011 F.RATT= 000001
011 F.RCHM= 000034
011 F.RCTL= 000017
           000162
                           010
                                           005100R
                                EMBNAM
                                                            014 EN.EMC
                                                                             000016
B.FSAZ
           000100
                           010
                                EMCHAM
FA.APD
                                           995119R
                                                                 FH.FSA
                                                                                                  F.RCHM= 000034
                                                                                                                                   N. PKSZ=
                                                                                                                                             000020
B.FSBZ
                           010
                                           000100
                                                                                                  F.RCTL= 000017
F.RSIZ= 000002
                                                                                                                                   N.PKTS=
                                                                 EN.ESB
                                                                            000002
                                                                                                                                             000043
                           010 FA.CRE=
010 FA.DLK=
B<sub>2</sub>ESCZ
           000104
                                           000010
                                                                 FM.FSC
                                                                                             ĕii
                                                                                                                                   N.OURY- 000031
NOTAL 000020
B. HBLK
           000120
                                                                                                                                                        NYMAPALA ELAN
                                           001000
                                                                 FN.LGQ
                                                                            000034
                                                                                            011
                                                                                                  F:RTYP= 000000
B. HDOC
           000114
                           MIM FA.FHR= 100000
                                                                 FH.LGU
                                                                            000036
                                                                                                  F.SEQN= 000100
                                                                                                                                                                 \nu
                                                                                                                                   N.SHNT= 000002
B. HRLP
           คคค
                           010 FA.EXL=
                                           002000
                                                                                         CIA-RDP85-00514R000100030001-3
                                              2000 FN,MF0 000024
Approved For Release 2005/07/2
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27-MAR-80 14: Approved For Release 2005/07/20 CIA-RDP85-00514R000100030001-3
MCOM-
                    0-M1110
SYMBOL -
             006714R
                                014 SFINARI
                                                    005170R
                                                                        014 SR.WSL
                                                                                            000052
                                                                                                                002 · SU. DBU = · 000004
                                                                                                                                                              WORDØ

    - . 000000

                                                                        014 SR.WSL
014 SR.YR
014 SR.1IN
014 SR.1IP
                                                                                                               002 SU. IDL = 000000
002 SU. IDL = 000000
                                                                                            000004
PKTERR
PKTFRE
                                014 SHDNAM
                                                    005230R
                                                                                                                                                              MORD 1
                                                                                                                                                                       - 0000002
             010124R
             005650R
                                       SRECPT
                                                    000000RG
                                                                                            000024
                                                                                                                                                              MORD2
                                                                                                                                                                       - 0000004
                                                                                                               002 SU:LOD = 0000001
                                                                                                                                                              WORD3
                                                                                            000016
PKTSTT
             005654R
                                014 SREC0
                                                    000004R
                                                                                                                                                                        - ... 0000006
                                014 SREC0
014 SREC1
014 SR.ARE
014 SR.ARS
014 SR.DAY
                                                                                                                                                             WORD4 = 000010.

WORD5 = 000012

WORD6 = 000014

WORD7 = 000016
                                                                        014 SS.FID
002 SS.FNB
                                                                                            000002
000010
                                                                                                               004 SU.SRC= 000002
004 SU.SRR= 000005
PQUQCM
             007134R
                                                    000126R
PSSQDN
             007300R
                                                    000114
PUTBOT
             007674R · 006774RG
                                                    000106
                                                                        002 SS.FVR
002 SS.LEN
                                                                                            равава
                                                                                                               004 SU.XPD= 000003
004 SYSFLG 000770
                                                                                            000012
                                                                                                                                   000770RG
                                                                                                                                                       914
PHTERE
                                                    000010
                                                                                                               004 SYSFLG 000770
004 S.FATT=000016
014 S.FDB=000140
014 S.FNB=000006
006 S.FNB=000036
006 S.FNB=000036
006 S.FNTY=000004
006 S.FTYP=000004
                                014 SR.DHT
014 SR.ECB
014 SR.ECH
014 SR.ECL
                                                                        002 SS.STT
002 STATSE
002 STATSS
002 ST.ASZ
PUTQUB
             007106RG
                                                    000014
                                                                                            ававав
                                                                                                                                                              MORDS
                                                                                                                                                                       - 0000020
                                                                                                                                                              WORD9 = 000022
WRDVAL = 000024
             007122RG
                                                    000047
                                                                                            000632RG
PUTQUT
PUTSSQ
             007224RG
                                                    000046
                                                                                            000302RG
                                                     000050
                                                                                                                                                              XBATCH=-
                                                                                                                                                                           000013
                                                                                            000020
PUTTOP
                                                                        002 ST.BSZ
002 ST.BTC
002 ST.CSZ
002 ST.HRL
QE.RO1:
QLSNAM
                                SR.FIB
014 SR.GRE
                                                                                                                                                              XDBLOA= 000004
XDBPRO= 000012
             000144
                                                    000012
                                                                                            000024
                                                     000100
                                                                                            000000
             005050R
QRYHAM
QTSTAT
             005120R
                                014 SR.GRS
014 SR.LEN
                                                    000072
000122
                                                                                            ровозо
                                                                                                                                                              XDMC IN= 000006
                                                                                                                                                              XFOSMR= 0000007
XGTSRE= 000014
                                                                                                                006
                                                                                                                      S.HRL
                                                                                                                                   000240
                                                                                            000010
             000640RG
                                                                        002 ST.HRL
002 ST.LEN
002 ST.QRY
002 ST.QSZ
002 ST.SCH
                                                                                                                      S.NFEN= .
SØDHRC .
QUQHED
Q.FDSC
                                014 SR.LIN
007 SR.LIP
                                                                                                               006
006
             006740R
                                                     пополье
                                                                                            000044
                                                                                                                                   000020
                                                                                                                                                       014 XHITSK=
014 XHLMER=
                                                     000062
                                                                                                                                                                           000011
             000004
O - NORK
             ававава
                                 882
                                       SR . MON
                                                     ававае
                                                                                            999934
                                                                                                               006
006
                                                                                                                      SIDHRO
                                                                                                                                   888756R
                                                                                                                                                                           000002
                                                                                                                                                    014 XHLMER-000000
014 XMSCHE-000000
014 XMSCHE-000000
015 XMTS 7000000
012 XMTS 7000000
012 XSUL04 000000
012 SSBARG-000000
012 TPC-000140
                                007
007
                                                                                                                                   007406R
005400R
Q. HUHL
                                       SR.HDC
                                                    000042
                                                                                            000040
                                                                                                                      TBHMAP
Q.SIZE
RLSLOK
                                                                                            000004
                                                                                                                006 UNINDX
             000014
                                       SR: NDS
                                                    000036
                                                                        002-ST.XLT
002-SUDHRI
002-SUINDX
002-SUST
             010070RG
                                 014 SR.HIH
                                                    000030
                                                                                            000014
000740RG
                                                                                                               006 WH.NTP
                                                                                                                                   000004
RNGPKT
             010076R
                                 014
                                       SR.HIP
                                                    000022
                                                                                                               014 UN.HXT
                                                                                                                                   000006
R.FIX
                                       SR.SDB
                                                    000032
                                                                                            000250RG
000256RG
                                                                                                               014 WH.ROT
014 WH.SIZ
                                                                                                                                   000002
R.SEQ
R.VAR
SEZLOK
             000003
                                       SR.SRC
SR.SUN
                                                    000002
                                                                                                                                   000010
             000002
                                                    000000
                                                                        002 SUST0
                                                                                            000256R
                                                                                                               014 WH.SRC
                                                                                                                                   000000
                                 014
                                                    000056
                                                                        002 - SUST1
                                                                                            000270R
                                                                                                                                   000001
             007762RG
                                       SR. TWS
                                                                                                               014 WN. TYP
SFØNAM-
             005160R
                                 014
 . ABS:
             аваааа
                               ana
             000000
                               001
SRCOFF
             000122
                               002
FDSCOF
                               003
             000010
             000012
                               994
DHROFF
STTOFF
             000044
                               006
QSPLOF
             000014
BSTOFF
                               010
             000772
FNOFFS
             000044
                               011
                               012
013
014
UNODOF
             000010
DNODOF
MCOM-
             000010
010130
ERRORS DETECTED:
                             Ø
VIRTUAL MEMORY USED:
                           SED: 5944 WORDS: (-24 P
7028 WORDS: (-27 PAGES)
                                                       (-24 PAGES)
DYNAMIC MEMORY: 7028 W
ELAPSED TIME: 00:00:57
MCOM, MCOM/-SP=P, M, MCOM
```

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DHRCOM MACRO M1110 27-MAR-80 14:07 PAGE 10 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                               .FITLE--DHRCOM-
.SBTTL-DHR-BUFFER-COMMON-
.PSECT-DHRCOM-
       1
2.
3 000000
4
5
6 000000
7
8 9
10
11
12.
13
14
15
16
17
18 020000
19
20
                                                                 ;
DHRCOM::
                                                                 GENERATE DHR BUFFERS
                                                                 ;
N=0
                          000000
000002
                                                                                           :SU-0
                                                                              N.SUNT.
                                                                  .REPT
                                                                                           N.BUFW- :BUFFER-0
N.BUFW- :BUFFER-1
:NEXT-SU-
                                                                               .BLKW.
                                                                 N=N+1
.ENDR·
```

DHRSZ:

.END

Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

DHRCOM: MA TABLE: OF: Co.

DHR · BUFFER · GOMMON · 10-2.

M1110 27-MAR-80 14: Approved For Release 2005/07/20 CIA-RDP85-00514R000100030001-3 DHRCOM: MA SYMBOL ซื้อธี: BITVAL = ававая B. FMHR 013 013 000172 010 DH.HXT ййййй6 Q: NUHL 000002 ST.SCH-000040 BITO B.FQLS 010 DH.ROT 000002 Q.SIZE 007 000014 ST.UHL ST.XLT 999994 กลล่ DH.SIZ FD.FID SR.ARE SR.ARS BITI 000002 B.FSAZ 000100 010 000010 013 000114 002 000014 006 BITIO B.FSBZ 010 000000 003 000106 002 SU.DBUпапапа4 B.FSCZ B.HBLK FD.FNB FD.FVR 003 003 SR.DAY SR.DLT SU.DON= BITii 004000 000104 DID ававае 000010 002 000006 ar e 0000004 BIT12 010000 000120 010 000014 002 000000 BIT13 929999 B.HDOC 888114 010 FD.LEN 010 FN.DBR 000010 993 SR.ECB SR.ECH 999947 002 002 SU.LOD= SU.SRC= 00000<u>1</u> 000002 040000 B.HRLP 000126 000026 011 000046 BIT14 B.HRLR B.HRLW 010 FH.DBS 010 FH.DHR 011 011 SR.ECL SR.FIB SU.SRR= BIT15 100000 000122 000022 000050 002 000005 000004 000124 000040 000012 BIT2 002 000003 BITZ 999919 B. HMBR 000052 010 FN.EMA 000012 011 SR.GRE 000100 002 S.HRI -000240 010 FH.EMB 011 SR.GRS 002 WN. NTP. 012 000020 B.HQRY 000232 000014 000072 000004 BIT4 010 FH.EMC 010 FH.FSA 010 FH.FSB 011 011 011 000000. 0000002. 000010. 000000 012 012 012 012 B.QLSZ B.QMAP SR.LEN SR.LIN ·WH.HXI ·WH.ROT BIT5 999949 000106 000016 000122 992 4. 000000 000066 002 002 000234 BIT6 000100 BITZ 000200 B.QSPL B.QTTM 000316 авава2 SRULTP. 000062 ·WN.SIZ ·WN.SRC 000004 010 FM.FSC 011 SR.MON 002 000400 000076 000006 BITS 010 FH.LGQ 010 FH.LGU 010 FH.MFO BIT9 991999 B.QUQP 000056 000034 011 SR:NDC 000042 002 UN. TYP 000001 012 BS.CLS= 000002 B.SFDB 000010 011 SR.NDS 002 WORD0 000000 BS.DBU= 000004 BS.INA= 000000 B. SIZE 000272 000024 011 SRININ а́аааза 002 WORD1 000002 011 011 SR.NIP SR.SDB WORD2 WORD3 000004 B.SNDF 000012 010 FH.MHR 000010 002 010 FN.NMB 000032 002 BS:0PN= 000001 B. SSQ. 0000004 000044 0000006 BS.SRC= B.SSQF 000050 010 FH.QLS 010 FH.QRY 000006 011 SR.SRC SR.SUN 000002 002 002 WORD4 WORD5 000010 000003 BYTE0 = -000000 B.STAT 000044 000020 011 000000 000012 000056 000001 STTE 000053 FN.SF0 FN.SF1 000030 011 SR.TWS SR.WSL 002 002 WORD6 WORD7 000014 B.UDOC 010 000032 011 000052 000016 BYTE2 000002 000110 SR.YR SR.1IN SR.1IP SS.FID BYTE3 000003 CF.80 CF.82 000070 FH.SHD 999942 011 0000004 002 002 WORD8 WORD9 000020 000022 000062 000024 000067 M. BYTE4 000004 CF.B4 CF.B6 WRDVAL = XBATCH= BYTES. 000005 000066 . 000002 000016 002 000024 .. N.BFAC≔ 000002 004 BYTE6 000006 000065 000004 000013 SS.FNB SS.FVR BYTE? 000007 CF:DR0= 000064 N BHGH = : 000006 000010 004 XDBLOA= 000004 XDBPRO= 000012 CF.DR1= N.BTCH= 000006 004 XDMC IN = . 000006 XFOSMR = . 000007 999999 BYTE9 000011 DBSLEN= 000116 N.BUFB = . 004000 SS:LEN 000012 994 BYTYAL 000012 DHRCOM N.BUFW= SS.STT 000000 004 B.BSTA 000054 010 DHRSZ 020000R 014 N:F0S-=-000764 ST.ASZ ST.BSZ ST.BTC 000020 ดิดธ XGTSRE = XHITSK = 000014 B.CHTX 000046 010 DH.BF0 000002 005 N.PKSZ= 000024 006 000011 B.CQUQ 000060 DH.BF1 N. PKTS = XHLMER= XHOTSK= 010 0000004 995 999943 ававава яя б 000002 B.FEMA 000132 010 DH.CTL 000000 M.QURY= št.čsz 000030 006 000010 B.FEMB 000142 ST:HRL ST:LEN 010 DH:DMC 000010 005 H.SUNT= 000002 999919 006 XMSCHE= природа B.FEMC 000152 010 DH:FLG 000006 005 QE.RO1= 000044 006 XQTS 000003 B.FFSA B.FFSB 010 010 010 992 000202 DN - DCK ававая 013 0.EDSC 999994 ST. DRY 999992 006 XOTA 000001 000212 DH: HTP 000004 Q.HQBK ST.QSZ 000034 006 XSULOA = . 000005 B.FFSC 000222 . ABS. 000000 000 пропро 001 002 003 004 SRCOFF 000122 EDSCOF 000010 SUSOFF 000012 DHROFE 000012 005 006 OSPL OF 000014 007 BSTOFF 000772 010 **ENOFES** 000044 011 012 013 WHODOF 000010 DNODOF 000010 014 ERRORS DETECTED:

DHRCOM: MACRO: M1110 27-MAR-80 14:07 PAGE: 10-2 PAGE: 1

VIRTUAL·MEMORY·USED: 2031 WORDS· (·8 PAGES) DYNAMIC·MEMORY: 2804 WORDS· (10 PAGES) ELAPSED·TIME: 00:00:13 DHRCOM/DHRCOM/÷SP=P,M,DHRCOM·

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MAIN: MACRO M1110 27-MAR-80 13:5 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3

2.

.NLIST-ME-

```
M1110 27-MAR-80 13:54pprayed For Release 2005/07/29 CIA-RDP85-00514R000100030001-3
.MAIN. MA
      3456789911234567899122345678999123345678999123345678999123345678999123345678999123345678999123345678999
                                                                        P.MAC - SYSTEM-WIDE PREFIX FILE
                           000012
                                                                                   RADIX 10.
                                                                        BIT-DEFINITIONS-
                                                                      .MACRO-BITDEF- X-
BIT'X- =-BITVAL-
.NLIST-
N-=:N+1.
BITVAL-=-BITVAL*2-
.LIST-
.ENDM- BITDEF-
N-=:0
BITVAL-=-1
.REPT- 16.
                                                                                                                             : SYMBOL SUBSTITUTE = BIT POSITION
                                                                                                                             : SINGLE BIT-LEFT-SHIFT-ONE-
                           000000
000001
                                                                                                               : BIT-101
                                                                                                                            : BIT0 IS-ONE-
                           000020
                                                                                  BITDEF N.
                                                                                                                             ; MACRO-CALL, PASS CHARACTER
                                                                       .ENDM-
                                                                      :WORD-ADDRESS-OFFSET DEFINITIONS-
                                                                      .MACRO-WORDOFF-X-.NLIST-
WORD'X--WRDVAL-
N--N-+ 1
WRDVAL--WRDVAL+ 2
.LIST-
.ENDM- WORDOFF-
N--0
JRDVAL--0
.REPT- 10.
.NLIST-
WORDOFF-N-
                                                                                                                             : SYMBOL SUBSTITUTE - = - OCTAL - VALUE : INCREMENT - 1X:
                           000000
000000
                           000012
                                                                                  WORDOFF . N.
                                                                                                                            ; MACRO-CALL, PASS CHARACTER
                                                                       .LIST
                                                                       .ENDM-
                                                                       BYTE · ADDRESS · OFFSET · DEFINITIONS ·
                                                                      .MACRO.BYTEOFF.X.
                                                                     MACRO BYTEOFF X.
NLIST.
BYTE:X = BYTVAL.
N = N+1
BYTVAL = BYTVAL+1
LIST.
ENDM BYTEOFF.
N = 0
BYTVAL = 0
REPT 10.
NLIST.
BYTEOFF. NA
                                                                                                                            : SYMBOL SUBSTITUTE - = OCTAL - VALUE - '
: INCREMENT - 'X'
                          ававава
                          000012
                                                                                 BYTEOFF . N.
                                                                                                                            ; MACRO-CALL, PASS CHARACTER
                                                                      LIST-
                                                                      "ENDM-
                          000010
                                                                                  .RADIX 8.
```

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.MAIN. MACRO M1110 27-MAR-80 13:54 PAGE 3 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
      5901234566666667777777777890123345
                                                      .MCALL CALL
                                                     : RETURN FROM SUBROUTINE - PC LINKAGE
                                                     MACRO RTN
                                                               RTS
RTN
                                                     .ENDM-
                                                     :EXIT-A-SUBROUTINE-
                                                                         SUBR
PC
                                                      .MACRO EXIT
                                                     .ENDM- EXIT-
                                                     ; BRANCH-ON-ANY-TESTED-BIT-ON--- USED-AFTER-BIT-TEST-(BIT-OR BITB)
,MACRO-BON- LOC-
,NLIST- BME LOC ---
                                                              BHE .
                                                                          LOC-
                                                                                              ; BRANCH IF BIT(S) SET
                                                       LIST
                                                      "ENDM»
                                                      BRANCH ON ALL TESTED BIT(S) OFF -- USED AFTER BIT TEST (BIT OR BITB)
MACRO BOFF LOC.
NLIST
                                                                          LOC-
                                                                                              ; BRANCH IF-BIT(S) NOT-SET-
                                                               BEQ
                                                      .LIST.
.ENDM.
                                                      .MACRO SAVE
                                                                         A1.A2.A3.A4.A5.A6
<A1>
A1.-(SP)
      867899123456789
                                                               MÕV.
                                                               NВ
                                                                          <A2>
                                                       .IF·
                                                               MOV.
                                                                          A2,-(SP)
                                                       .ENDC -
                                                                         <A3>
A3,-(SP)
                                                               MOV
                                                       .ENDC
                                                                          <A4>
                                                               NB
                                                       .IF.
                                                                          A4.-(SP)
                                                      .ENDC.
                                                                          <A5>
A5,-(SP)
                                                               NΒ
                                                               MOV.
      100
                                                       .ENDC
                                                               NΒ
                                                                          <A6>
      102
103
104
105
                                                       .IF·
                                                                          A6.-(SP)
                                                       .ENDC
                                                       ENDM SAVE
                                                                         A1.A2.A3.A4.A5.A6
<A6>
(SP)+.A6
                                                      .MACRO RESTOR
      106
107
108
109
                                                               MOV
                                                       .ENDC
                                                                          <A5>
(SP)+,A5
                                                                НΒ
      110
111
112
113
                                                       .IF
                                                               MOV.
                                                      .ENDC
```

NB

.IF.

<A4>

Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

Augustin in the second of the

.MAIN. MA M1110 27-MAR-80 13:54 PAGE 3-1 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3 <A3> (SP)+,A3 . IF·· ΗВ 116 117 118 120 121 122 123 124 125 127 128 130 131 132 133 133 133 133 133 133 133 134 135 137 138 139 140 MÖV .ENDC ΝB <A2> (SP)+,A2 MOV: .ENDC <A1>(SP)+,A1 NB .IF· MOV. .ENDC RESTOR MESSAGE · OUTPUT · MACRO · MSG.PAR. MSG.-(SP) <PAR. PAR.-(SP) .MACRO MOUT\$S : PUSH - ADDRESS - OF - ASCIZ - STRING MOV: ; PUSH · ADDRESS · OF · ARGUMEN<u>T</u>: BLOCK MOV .ENDC <PAR>
-(SP) ČLR. .ENDC JSR ADD PC.MSGOUT. #4.SP :EDIT-OUTPUT-MSG-STRING-AND-PRINT-IT-:RESTORE-STACK-POINTER-.ENDM-

```
MAIN: MACRO M1110 27-MAR-80 13:54 PAGE 4
Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
        143
        144
145
                                                                                         SYSTEM-EQUATES-
                                                                                                                                       :MAX.NUMBER.OF.ACTIVE.BATCHES.
:HIGH.BATCH.NUMBER.
:MAX.* OF.GUERIES.IN.A.BATCH.
:MAX.* OF.FOS.ENTRIES.COUBLE.WORDS)
:SIZE.OF.SYSTEM.BUFFERS.(WORDS)
:SIZE.OF.SYSTEM.BUFFERS.(BYTES)
:**OF.SECTORS.IN.SYSTEM.BLOCK.
:NUMBER.OF.SEARCH.UNITS.
                                 000004
000006
                                                                                    N.BTCH=4
N.BHGH=<N.BTCH+1>*2
        146
147
        148
149
                                 000031
000764
                                                                                        .QURY=25.
.FOS=500.
                                                                                    Z Z
                                 002000
004000
        150
                                                                                    N.BUFW=1024.
         151
                                                                                     N.BUFB=N.BUFW*2
        152
153
                                                                                     N.BFAC=N.BUFW/256.
                                  000004
                                  000002
                                                                                     H.SUNT=2
         154
                                                                                         STATUS-RECORD-OFFSETS--SREC; SREC0; SREC1; ETC-
         156
         158 000000
                                                                                                       .PSECT SRCOFF, ABS
                000000
                                                                                     SR.SUN: .BLKW-
                                                                                                                                        ;SEARCH · UNIT · NUMBER ·
                                                                                                                                        SEARCH TIME OF LAST SEARCH (SEC)
                                                                                     SR.SRC: BLKW: BEGINHING OF SR.YR: BLKW-SR.MON: BLKW-
        160 000002
         161
162
                . คคคคคд
                                                                                                                                         :YEAR
                                                                                                                                       ; year.
; Month
; Day of DISK INIT-
; File: IDENTIFICATION: BLOCK
; DELTA FOR: INDEX SECTORS: REPRESENTED
; ADDRESS: OF FIRST: IPR:
NUMBER: OF : IPR: SECTORS: ON: DISK:
ADDRESS: OF FIRST: INDEX: RECORD:
NUMBER: OF : INDEX: RECORDS: ALLOCATED:
ADDRESS: OF FIRST: INDEX: RECORD:
NUMBER: OF : DOCUMENTS: AT: INIT:
; CURRENT: NUMBER: OF : DOCUMENTS:
HIGH: ORDER: ADDRESS: OF : EOC:
; BYTE: INDEX: OF : EOC:
; LOW: ORDER: ADDRESS: OF : EOC:
; COTAL WHITE: SPACE:
; ADDRESS: OF : LATEST: APR:
; ADDRESS: OF : LATEST: IR:
; GIVEN: START: DOC: ID:
; CURRENT: START: DOC: ID:
; CURRENT: END: DOC: ID:
; CURRENT: END: DOC: ID:
; CURRENT: END: DOC: ID:
                000006
                                                                                                                                         HTHOM:
                                                                                     SR.DAY: .BLKW-
SR.FIB: .BLKW-
SR.DLT: .BLKW-
         164 000010
         165
                000012
        166
167
                000014
                000016
                                                                                     SR.1IP:
SR.NIP:
                                                                                                      .BLKW
         168 000022
                                                                                                      .BLKW
                                                                                     SR.1IH:
SR.HIH:
         169 000024
         170 000030
                                                                                                       .BLKW-
                                                                                     SR.SDB:
         17 i
                000032
         172 0000036
173 000042
174 000046
                                                                                                      .BLKW
                                                                                     SIR NDS:
                                                                                     SR.HDC:
                                                                                     SR.ECH:
SR.ECB:
                                                                                                       .BLKB
                000047
                                                                                                      .BLKB
         176
177
                000050
000052
                                                                                     SR.ECL:
SR.WSL:
                                                                                                      .BLKW
.BLKW
         178
179
                000056
000062
                                                                                     SR.TWS:
                                                                                                      .BLKW
                                                                                      SR.LIP:
         180
181
                                                                                     SR.LIH:
SR.GRS:
                                                                                                       .BLKW
                000066
                000072
                                                                                                      .BLKW
         182
183
                                                                                     SR: GRE: .BLKW
                000100
                 000106
                                                                                      SR.ARS:
                                                                                     SR.ARE: .BLKW
         184 000114
         185
                                                                                                                                         :LENGTH - OF - DB - STATUS - AREA
;LENGTH - OF - STATUS - RECORD -
                                                                                      DBSLEN=.-SR.YR
                                  000116
         186
                000122
                                                                                      SR.LEH:
         189
190
                                                                                         FILE - DESCRIPTOR - OFFSETS -
          191
         192
193
194
                 ававав
                                                                                                        .PSECT-
                                                                                                                                         FILE- ID-
                000000
                                                                                                      .BLKW.
                                                                                                                       2
                                                                                     FD.FVR:
FD.FNB:
                                                                                                                                          : VERSION NUMBER
                000006
          195
                                                                                                       .BLKW
                                                                                                                                         : FILE - NUMBER
                                                                                                                                         ; LENGTH · OF · FDSC
                                                                                     FD.LEN:
         196
                                                                                                                                                                                                                                                                 1/4
                                                                          Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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M1118 27-MAR-88 13:54pproved For Release 2005/07/ CIA-RDP85-00514R000100030001-3
2345678901123456789012345678901234567890123456789012345678
                                                                                                                                                                              M.MAC - MASTER - COMPUTER - PREFIX FILE
                                                                                                                                                                              MASTER COMPUTER CONSTANTS
                                                                                                                                                                                                                                                                                          :#-OF-FREE-SSQ/QUQ-PACKETS TO-ALLOCATE
                                                                                                                                                                      N.PKTS=35.
N.PKSZ=16.
S.HRL=40.*N.BFAC
                                                   000043
000020
                                                                                                                                                                                                                                                                                         ;SIZE OF PACKET (BYTES)
;DEFAULT SIZE OF HRL FILE
                                                    000240
                                                                                                                                                                        ; MASTER SCHEDULER GLOBAL FLAGS
                                                                                                                                                                     ##516R* SCHEDO

##56.

N=0

.REPT N.BTCH-

.IRP Z,\N>

.ENDR-

.ENDR-
                                                    000070
000000
                                                    000004
                                                                                                                                                                                                                                                   :DEFINE FLAG
                                                                                                                                                                                IN-CORE-DHR-GLOBAL FLAGS
                                                                                                                                                                       N=0
REPT N.SUNT
IRP Z.<\N>
CF.DR*Z=M
                                                     000000
000002
                                                                                                                                                                                                                                                   :DEFINE FLAG
                                                                                                                                                                        .ENDR
M=M-1
N=N+1
.ENDR
                                                                                                                                                                          : MASTER - COMPUTER - COMMAND - SOURCES
                                                                                                                                                                       :
XMSCHED =0
XQT0 =1
XHLMERG =2
XQTS =3
XDBLOAD =4
XSULOAD =5
XDMC IN =6
XFOSMRG =7
XHOTSK =8
                                                     000000
000001
                                                      000002
                                                      йииииз
                                                      000004
                                                      000005
                                                     000006
                                                                                                                                                                         XHOTSK=8.
XHITSK=9.
XDBPROC=10.
                                                     000010
000011
                                                     000012
000013
                                                                                                                                                                         XBATCH=11.
XGTSREC=12.
                                                      000014
                                                                                                                                                                                 BATCH STATE STATUS FLAGS
                                                                                                                                              000000
```

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.MAIN. MACRO M1110 27-MAR-80 13:54 PAGE 6-1
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                           000002
                                                                    BS.GLS=2
                                                                                                               CLOSED.
       6016236465667897123775677898182
                                                                    BS.SRC=3
BS.DBU=4
                           ининия.
                                                                                                                SEARCH
                           000004
                                                                                                               DATA BASE UPDATE
                                                                       SEARCH UNIT STATUS FLAGS - SUST
                                                                                               :IDLE:
:CONTROL:TABLE LOAD:IN:PROGRESS:
:TABLES:LOADED - SEARCHING:
:SU:XX:DONE:- WAIT:FOR:FOS:
:FOS IN:(SEARCH:DONE) - DATA:BASE:UPDATE:STARTED:
:DBU DONE:- STATUS:RECORD:REQUESTED:
:STATUS:RECORD IN:- SEARCH:UNIT:DONE
                           000000
                                                                    SU. IDL =0
                                                                    SU.LOD=1
SU.SRC=2
SU.XPD=3
                           000001
                           000002
                           000003
                           000004
                                                                    SU.DBU=4
                           000005
                           000006
                                                                    SU.DON=6
                                                                       SEARCH-UNIT-STATUS ENTRY-OFFSETS-
                                                                                               000000
000000
                                                                    SS.STT: .BLKW-
SS.FID: .BLKW-
SS.FVR: .BLKW-
            000002
000006
             000010
                                                                    SS.FNB:
                                                                                 .BLKW-
             000012
                                                                    SS.LEH:
                                                                                                             :SIZE - OF - ENTRY -
        83
84
85
86
                                                                       DHR - CONTROL - WORD - OFFSETS -
        97
88
            000000
000000
                                                                                   .PSECT: DHROFF,ABS
                                                                                                             ABS:

:CONTROL:WORD:

:FIRST BUFFER:OFFSET:

:SECOND:BUFFER:OFFSET:

:GLOBAL:FLAG:NUMBER:

:DMCIN:SAVE:AREA
                                                                    DH.CTL: .BLKW-
DH.BF0: .BLKW-
DH.BF1: .BLKW-
            000002
000004
        89
91
91
93
94
95
97
99
99
            000006
000010
                                                                    DH.FLG: .BLKW.
DH.DMC: .BLKW.
                                                                       STATISTICS AREA OFFSETS - CHSTAT; CDSTAT; ETC-
                                                                                               STTOFF, ABS:
1 ;#:OF:BATCHES:
             000000
                                                                                   .PSECT-
             000000
                                                                    ST.BTC:
                                                                                 .BLKW-
            0000002
0000004
                                                                    ST.QRY:
ST.UHL:
                                                                                                             :QUERIES
       100
                                                                                  .BLKW-
                                                                                                             #HRL-DOCIS:
#XLATE TIME (TICKS)
            000010
000014
                                                                    ST.HRL:
ST.XLT:
       101
                                                                                  .BLKW
                                                                                               22222
       102
                                                                                  .BLKW-
                                                                                                             #FSA WORDS
#FSB WORDS
#FSC WORDS
#QLS WORDS
      103 000020
104 000024
                                                                    ST.ASZ:
ST.BSZ:
                                                                                  .BLKW
      105 000030
106 000034
                                                                    ST.CSZ:
ST.QSZ:
                                                                                  .BLKW
                                                                                  .BLKW-
      107
108
            000040
000044
                                                                    ST.SCH:
ST.LEN:
                                                                                  .BLKW
                                                                                                              :SEARCH:TIME/SU:(SEC)
```

```
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.MAIN. MA .M1110 27-MAR-80 13:54
       111
112
113
114
                                                                                   QUERY-SPOOL-FILE-AREA-OF-BST OFFSETS-
                                                                                                .PSECT-
                                                                                                               QSPLOF,ABS
        115
116
117
               000000
000000
                                                                                                              USPLUF.ABS:

| NUMBER.OF.QUERY BLOCKS:
| NUMBER.OF.UHL.BLOCKS:
| FD.LEN: | FDSC.OF.QUERY.SPL.
| SIZE.OF.QUERY.SPOOL.FILE.AREA.
                                                                               Q.NQBK: .BLKW-
Q.NUHL: .BLKW-
               000002
        118
               000004
                                                                               Q.FDSC: .BLKB
                                                                               Q.SIZE:
        119 000014
120
        121
122
                                                                                   BATCH STATUS TABLE OFFSETS TO BST0, BST1, ETC.
         124
                000000
000000
                                                                                                                               :SSQ · INTERLOCK
                                                                                                 . BLKM-
         126
                                                                                                                                ;SSQ:ITEM-COUNT:
;FORWARD-LINK:
;LAST-ENTRY-POINTER:
;SCHEDULER'S-FDB ADDRESS:
         127
128
                000002
000004
                                                                                B.SSQ:
                                                                                                .BLKW-
         129 000006
130 000010
                                                                                B.SFDB:
B.SNDP:
                                                                                                . BLKId-
                                                                                                                 13.
                                                                                                                                :SEND AREA
                                                                                                                                #SEND AREH:
#SCHEDULER STATUS FLAG:
#STATE CONTEXT: NEXT/CURRENT NODE:
#SSQ: EVENT FLAG NUMBER:
#NOT: USED:
#POTCH NUMBER:
                000012
000044
                                                                                BL.STAT:
                                                                                                .BLKW-
                                                                                                .BLKW
         133 000046
134 000050
                                                                                B.SSQF:
                                                                                                .BLKB
                                                                                                  BLKB
                                                                                                                               ;NOT-USED:
;BATCH NUMBER:
;BATCH STATE:
;BATCH STATE:STATUS:FLAGS:
;UNLCADED:QUO:ENTRY:PRESENT:FLAG:
;CURRENT:QUO:ENTRY:
;BATCH TRANSLATE TIME:(TICKS)
;FSA:SIZE:(WURDS)
;FSB:SIZE:(WURDS)
         135
                000051
                                                                                B.NMBR:
                                                                                                .BLKB
                000052
                                                                                B.STTE:
B.BSTA:
                                                                                                .BLKB.
                000053
                000054
                                                                                B.QUQP:
B.CQUQ:
                                                                                                .BLKW-
                000056
         139
                                                                                                .BLKW-
         140 000060
141 000076
                                                                                B.CUOQ:
B.QTTM:
B.FSAZ:
B.FSBZ:
B.FSCZ:
B.QLSZ:
                                                                                                .BLKW-
                000100
000102
                                                                                                . BLKIJ
                                                                                                                                :FSC·SIZE·(WORDS)
:QLS·SIZE·(WORDS)
         144 000104
         145 000106
                                                                                                .BLKW-
                                                                                                                               ; GLS SIZE (WORDS)
;# · OF · DOC · IN · ALL UHL
;# · OF · DOC · IN · ALL UHL
;# · OF · DOC · IN · ALL UHL
;# · OF · DOC · IN · HRL
;# · OF · UNUSED · BLOCKS · IN · HRL · MRG ·
;START BLOCK · OF · NEW · HRL · MRG · (WRITE)
;START BLOCK · OF · NEW · HRL · MRG · (WRITE)
;HRL · SUB+FILES · PER · SEARCH · UNIT
;FDSC · FOR · EMATRIX · EMB ·
;FDSC · FOR · EMATRIX · EMB ·
;FDSC · FOR · EMATRIX · EMC ·
;FDSC · FOR · HRL · MRG ·
                                                                                 EL. UDOC:
         146
147
                000110
                                                                                FL HDOC:
                                                                                                .BLKW
         148 000120
                                                                                FL HRLR:
                                                                                                .BLKW-
         149 000122
                                                                                B.HRLW:
B.HRLP:
                                                                                                .BLKW
         150
                000124
                                                                                                                H.SUNT
                                                                                                .BLKW
                                                                                                                FD.LEN
         152 - 000132
         153 000142
                                                                                B.FEMB:
                                                                                                .BLKB
                                                                                                .BLKB
                                                                                                                FD.LEN
         154 000152
                                                                                B.FQLS:
                                                                                                .BLKB
                                                                                                                B.FFSA:
B.FFSA:
B.FFSC:
                                                                                                .BLKB
         156 000172
                000202
000212
                                                                                                .BLKB
         158
         159 000222
160 000232
                                                                                B.NORY: .BLKW
B.OMAP: .BLKW
         161 000234
162-000316
                                                                                B.QSPL:
B.SIZE:
                                                                                                .BLKB
         162
163
                000772
```

.MAIN. MACRO M1110 27-MAR-80 13:54 PAGE 8. Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

166 167 168 169 170 171 ; QUERY-ERROR-GODES-; QE.RO1=100. 000144

:RESOURCE OVERFLOW TYPE 1

```
MAIN. MA M1110 27-MAR-80 13:54 PROEE For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
         173
174
175
176
177
                                                                                                   FILE · NUMBERS
                 000000
000000
                                                                                                                                    FNOFFS, A9S
                                                                                                                                                       :DP0:[7.5]TDCTA.FSA
:DP0:[7.5]TDCTB.FSA
:DP0:[7.5]TDCTC.FSA
:DP0:[7.5]TDCTC.FSA
                                                                                              FN.FSA:
                                                                                                                 .BLKW-
         178
179
                 000002
000004
                                                                                              FM.FSB:
FM.FSC:
                                                                                                                 .BLKW
                                                                                                                  .BLKW
          180
181
                                                                                                                                                      ;DP0:[7,5]EMATRIX:QLS;

;DP0:[7,5]EMATRIX:EMA:

;DP0:[7,5]EMATRIX:EMB:

;DP0:[7,5]EMATRIX:EMB:

;DP0:[7,4]DBUPD:SPL:

;DP0:[7,4]DBUPD:SPL:

;DP0:[7,4]DBUPD:SPL:

;DP0:[7,4]DBS:T:

;DP0:[7,4]DBS:T:

;DP0:[7,4]DBS:T:

;DP0:[7,4]DBS:T:

;DP0:[7,4]DBS:T:

;DP0:[7,4]DBPD:SPL:

;DP0:[7,4]DBUPD:SPL:

;DP0:[7,4]DBUPD:SPL:

;DP0:[7,4]DHR:SPL:

;DP0:[7,4]DHR:SPL:

;DP0:[7,4]DHR:SPL:

;DP0:[7,4]MSCHED.SPL:

;LENGTH:OF:TABLE
                  000006
                                                                                              FN.QLS:
                  000010
                                                                                              FN:MHR:
                                                                                                                  . BLKU
          182.000012
183.000014
                                                                                              FN.EMB:
                                                                                                                 .BLKW
          184 000016
185 000020
                                                                                              FH.EMC:
FH.QRY:
                                                                                                                 .BLKW
                                                                                                                 .BLKW
                  000022
000024
                                                                                              FN.DBS:
FN.MFO:
          186
187
                                                                                                                  .BLKW
                                                                                                                 .BLKW
                                                                                              FN.DBR:
FN.SF0:
FN.SF1:
FN.LGO:
                  000026
          188
                                                                                                                  .BLKW
          189
                                                                                                                 .BLKW
          190
191
                  000032
000034
                                                                                                                  .BLKW
                                                                                                                 .BLKW
          192
193
                  . 000036
000040
                                                                                              FH.LGU:
FH.DHR:
                                                                                                                 .BLKW.
          194 000042
                                                                                              FN.SHD:
FN.NMB:
                                                                                                                 .BLKW
          195
196
197
198
                  000044
         199
200
                                                                                                   STATE TRANSITION TABLE OFFSETS
          201
                  000000
                                                                                                                  .PSECT-
                                                                                                                                    WHODOF, ABS
                                                                                                                                                                         :WAIT-NODE
                                                                                                                                                      ### WHIT NODE :
COMMAND SOURCE :
COMMAND TYPE :
HANDLING ROUTINE :
NEXT NODE TYPE :
NEXT STATE :
SIZE OF NODE ENTRY
         202
203
204
                                                                                              UN.SRC:
UN.TYP:
UN.ROT:
                  ававав
                                                                                                                .BLKB
                  000001
                  0000002
                                                                                                                 .BLKW
         205
                  000004
                                                                                                                 .BLKW
                                                                                              ÜM.NXT:
UM.SIZ:
         206 000006
                                                                                                                 .BLKW
         207
208
                 000010
        208
209
210 000000
211 000000
212 000002
213 000000
214 000006
215 000010
216
217
                                                                                                                                                      ABS: ; DECISION: NODE:
:DECISION: CHECK: ROUTINE:
:DECISION: SATISFIED: ROUTINE:
:NEXT: NODE: TYPE:
:NEXT: STATE:
:SIZE: OF: NODE: ENTRY:
                                                                                                                  .PSECT
                                                                                                                                   DNODOF, ABS
                                                                                              DN.DCK:
DN.ROT:
                                                                                                                 .BLKW
                                                                                                                 .BLKW
                                                                                              IN.HTP:
IN.HXT:
                                                                                                                 .BLKW
                                                                                              DH.SIZ:
```

 $\mathcal{H}_{\mathcal{F}_{\mathcal{F}}}$

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MAIN. MACRO M1110 27-MAR-80 13:54 PAGE 19 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

219 000000

.PSECT-

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000001

.MAIN. MA

.END...

```
MACRO M1110 27-MAR-80 13:54 PAGE 11-1
TARLE CIA-RDP85-00514R000100030001-3
SYMBOL - TABLE -
                                             000222
000172
                                                                                                 013 Q.SIZE
013 SR.ARE
003 SR.ARS
BITVAL =
           ававав
                                  BAFFSC
                                                               010 DN.ROT
                                                                                000002
                                                                                                                  000014
                                                                                                                                   007 ST.UHL
002 ST.XLT
002 SU.DBU=
                                                                                                                                                    0000004
                                                                                                                                                                      ดดร
віто
                                  B.FMHR
           000001
                                                               010 DN.SIZ
010 FD.FID
010 FD.FNB
                                                                                000010
                                                                                                                  000114
                                                                                                                                                     000014
                                                                                                                                                                      996
                                  B.FOLS
BITI
           000002
                                              000162
                                                                                000000
                                                                                                                  000106
                                                                                                                                                    0000004
           002000
                                  B.FSAZ
                                                                                                 003
003
003
                                                                                                      SR.DAY-
SR.DLT-
SR.ECB-
SR.ECH-
                                              000100
                                                                                000006
                                                                                                                                    002
                                                                                                                                         SU.DON=
BIT11
           004000
                                  B.FSBZ
B.FSCZ
                                              000102
                                                               010 FD.FVR
010 FD.LEN
                                                                                                                  000014
                                                                                                                                        SU.IDL=
                                                                                                                                   002
                                                                                                                                                    равава
            010000
                                              000104
                                                                                000010
                                                                                                                  000047
                                                                                                                                    002
BIT13
BIT14
                                  B.HBLK
B.HDOC
                                              000120
000114
                                                               010 FH.DBR
010 FH.DBS
                                                                                000026
000022
           929999
                                                                                                 011
                                                                                                                  000046
                                                                                                                                   002
                                                                                                                                         SU.SRC=
                                                                                                                                                    000002
           040000
                                                                                                                                   002-50.5RC=-
002-5U.SRP=-
002-5U.XPD=-
002-5.HRL--
002-WN.NTP-
002-WN.NXT-
002-WN.ROT-
                                                                                                 011
                                                                                                       SR.ECL
                                                                                                                  000050
                                                              010 FN.DBS
010 FN.DHR
010 FN.EMB
010 FN.EMB
010 FN.EMC
010 FN.FSA
BIT15
           100000
                                  B. HRI P
                                             000126
                                                                                000040
                                                                                                 011
                                                                                                       SR.FIB
                                                                                                                  000012
                                                                                                                                                    000003
           000004
                                  B.HRLR
                                              000122
                                                                                000012
                                                                                                 011
                                                                                                      SR GRE
                                                                                                                  000100
000072
                                                                                                 011
011
BIT3
           000010
                                  B. HRI M
                                              000124
                                                                                000014
                                                                                                       SR.GRS
                                                                                                                                                                     012
012
012
012
                                                                                                                                                    0000004
BIT4
BIT5
           000020
                                                                                                      SR.LEN
SR.LIN
                                                                                                                                                    000006
                                                                                000016
                                                                                                                  RRR 122
           000040
                                  BINORY
                                             000232
                                                                                000000
                                                                                                 011
                                                                                                                  000066
                                                                                                                                                    000002
BIT6
           000100
                                  B.QLSZ
                                             000106
                                                                                000002
                                                                                                 011 SR.LIP
011 SR.MON
                                                                                                                  000062
                                                                                                                                   002 WN.SIZ
002 WN.SRC
                                                                                                                                                    000010
BIT7
           000200
                                  B.OMAP
                                             000234
                                                              010 FH.FSC
010 FH.LGQ
                                                                                000004
                                                                                                                                                    000000
                                                                                                                                                                     012
           000400
                                  B.QSPL
                                             000316
                                                                                000034
                                                                                                                                   002 WN.TYP - 002 WORD0 =
                                                                                                 011
                                                                                                      SRINDO
                                                                                                                  000042
                                                                                                                                                    000001
                                                                                                                                                                      0i2
                                  B.QTTM
B.QUQP
                                                               010 FN.LGU
010 FN.MFO
BIT9
           001000
                                              000076
                                                                                000036
                                                                                                       SR.NDS
                                                                                                                                                    000000
BS.CLS=
           000002
                                              000056
                                                                                000024
                                                                                                 Ð11
                                                                                                       SR.NIN
                                                                                                                  РИРИЗИ
                                                                                                                                   002
002
                                                                                                                                        WORD1
WORD2
                                                                                                                                                    000002
BS.DBU=-000004
BS.INA=-000000
                                                               010 FN.MHR
010 FN.NMB
                                  B.SFDB
                                              000010
                                                                                000010
                                                                                                 011
                                                                                                      SR.HIP
                                                                                                                  000022
                                                                                                                                                    0000004
                                  B.SIZE
                                                                                                      SR.SDB
SR.SRC
SR.SUN
                                              000772
                                                                                                                  000032
                                                                                                                                   002
002
                                                                                                                                        WORD3
WORD4
                                                                                000044
                                                                                                 ин
                                                                                                                                                    000006
BS.OPN=
BS.SRC=
                                  B.SNDP
B.SSQ
                                                               010 FH.QLS
010 FH.QRY
                                                                                                 011
011
           0000001
                                              000012
                                                                                000006
                                                                                                                                                    000010
            000003
                                              000004
                                                                                000020
                                                                                                                  равава
                                                                                                                                   992
                                                                                                                                        JUORDS.
                                                                                                                                                    000012
000014
                                                                                                                                                                        ----
                                  BISSOF
                                                               010
                                                                    FM.SF0
FM.SF1
                                                                                                 011
                                                                                                       SR.TWS
SR.WSL
                                                                                                                                        - WORD6
- WORD7
BYTE0 =
           . คคคคคค
                                              ดดดดรด
                                                                                000030
                                                                                                                                   002
BYTE 1
           000001
                                  B.STAT
                                              000044
                                                                                000032
                                                                                                                  000052
                                                                                                                                   002
                                                                                                                                                    000016
BYTE2
BYTE3
           000002
                                  B.STTE
B.UDOC
                                              000053
                                                               010
                                                                    FM.SHD
                                                                               000042
000062
                                                                                                 011
                                                                                                       SR.YR.
SR.1IH.
                                                                                                                  000004
                                                                                                                                                    000020
                                                                    M.
                                              000110
                                                               010
                                                                                                                  000024
                                                                                                                                   002
                                                                                                                                         HUSD9
                                  CF.80 =
CF.82 =
                                                                                000002
000004
                                                                                                       SR.1IP
SS.FID
BYTE4
           999994
                                             000070
                                                                                                                  000016
                                                                                                                                         WRDVAL=
                                                                                                                                                    000024
BYTE5
            000005
                                              000067
                                                                     N.BFAC=
                                                                                                                                   004
                                                                                                                                         XBATCH= · 000013
BYTE6
           000006
                                  CF:84
                                             000066
                                                                    N.BHGH= 000006
N.BTCH= 000004
                                                                                                       SS.FNB
SS.FVR
                                                                                                                  000010
                                                                                                                                   004
                                                                                                                                         XDBLOA=
BYTE7
                                  CF.B6
            000007
                                              000065
                                                                                                                  000006
                                                                                                                                   994
                                                                                                                                         XDBPRO= 000012
                                                                                                       SS.LEN-
SS.STT-
ST.ASZ-
ST.BSZ-
                                  CF.DR0=
CF.DR1=
                                             000064
                                                                    N.BUFB=-004000
N.BUFW=-002000
                                                                                                                  000012
000000
                                                                                                                                   004
004
                                                                                                                                         XDMCIN= :
XFOSMR= :
BYTES
            000010
BYTE9
                                                                                                                                                    000007
BYTVAL =
            000012
                                  DBSLEN=
                                             000116
                                                                    N.FOS --
N.PKSZ=
                                                                                000764
                                                                                                                  000020
                                                                                                                                   006
                                                                                                                                         XGTSRE = . 000014
XHITSK = . 000011
B.BSTA
                                  DH.BF0
            000054
                             010
                                              000002
                                                               005
                                                                                000020
                                                                                                                  000024
                                                                                                                                   006
BICHTX
            000046
                             010 DH.BF1
010 DH.CTL
                                              000004
                                                               005 N.PKTS=-000043
005 N.QURY=-000031
                                                                                                       ST.BTC
ST.CSZ
                                                                                                                  000000
                                                                                                                                   006
006
                                                                                                                                         XHLMER = 000002
XHOTSK = 000010
B.CQUQ
            000060
                                                                                                                  000030
B. FEMA
            000132
                             010
                                  DH - DMC
                                              000010
                                                               005
                                                                    M.SUNT=
QE.RO1=
                                                                                000002
                                                                                                       ST.HRL
ST.LEN
                                                                                                                  000010
                                                                                                                                   006
                                                                                                                                         XMSCHE=
                             010
                                              000006
                                                               005
                                  DH.FLG
                                                                                                                  000044
                                                                                                                                                = 000003
= 000001
                                                                                                                                         XQTS
                                                                                                                                   006
                                                                                                 007
007
007
                                                               013 0.FDSC-
013 0.NQBK-
                                                                                                      ST.QRY
ST.QSZ
                                                                                                                                   006
B.FEMC
            000152
                             010
                                  DN:DCK
                                              000000
                                                                                999994
                                                                                                                  000002
                                                                                                                                         XQT0
B.FESA
            000202
                             010
                                  DHINTP
                                                                                                                  000034
                                                                                                                                         XSULOA = - 000005
B.FFSB
           000212
                             010
                                  DHINXT
                                             000006
                                                               013
                                                                    Q : NUHL
                                                                                999992
                                                                                                      ST.SCH
                                                                                                                  000040
                                                                                                                                   006
. ABS.
           000000
                           999
           000000
                           001
SRCOFF
           000122
FDSCOF
SUSOFF
           999919
                           003
           000012
                           004
DHROEE
           000012
                           005
006
STTOFF
           000044
QSPLOF
BSTOFF
           000014
                           007
                           010
           000772
ENGEES
           000044
                           011
012
WHODOF
           000010
DNODOE
           000010
                           013
                         0
                                                                                                                                                                    The way
ERRORS DETECTED:
                                                                                                                                                                              1
                                                                                                                                                                                    No oka
                                                                                                                                                                       177
```

VIRTUAL MEMORY-USED: 2015 WORDS- (-8 PAGES)
DYNAMIC MEMORY: 3068 WORDS- (-11 PApproved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

MAIN. ME M1110 27-MAR-80 13:54 PACE 11-2 CIA-RDP85-00514R000100030001-3

ELAPSED TIME: 00:00:14
.M/-SP=LIST.P.M.END

HÖST- INPUT SK- (HITSK) MACRO M1110 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

3 70 98 109

INTRODUCTION: MACROS: EQUATED:SYMBOLS: DATA BUFFERS:

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HOST-INPUT TASK-(HITSK) MACRO-M1110 27-MAR-80 13:25 PAGE-10 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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.FITLE- HOST INPUT-TASK (HITSK)

.IDENT /01/ .SBTTL INTRODUCTION

RECEIVE INPUT FROM THE HOST PROCESSOR

THIS TASK IS RESPONSIBLE FOR INPUTTING FILES OF DATA FROM THE HOST PROCESSOR AND AND SPOOLING THEM TO THE SYSTEM DISK ON THE MASTER COMPUTER. THERE ARE TWO BASIC TYPES OF FILES THAT ARE

- QUERIES AND USER HIT LISTS DATA BASE UPDATE FILES

THE OUERIES AND HITS LISTS ARE SPOOLED TO C7.5 JOUERY, SPL AND THE DATA BASE UPDATES ARE SPOOLED TO C7.5 JDBUPD, SPL:

A-GIVEN-QUERY/HIT-LIST-TRANSACTION-CONTAINS-FIRST-THE-QUERIES-AND-THEN-THE HIT-LISTS. THESE ARE-BOTH-PLACED-INTO-THE-SAME-FILE-BY-THE-"QRY" ROUTINE.

DATA-BASE-UPDATES-CONSISTS-OF-SEVEN-TYPES-OF-RECORDS. THESE-ARE:

- NEW-DOCUMENT-MODIFY-DOCUMENT-OVERLAY-DOCUMENT-
- 3) 4) ADD DOCUMENT
- 5) 6) PURGE DOCUMENT READ DOCUMENT
- DELETE DOCUMENT

THE NEW, MODIFY, OVERLAY, AND ADD DOCUMENT RECORDS ARE HANDLED BY THE SAME ROUTINE "DOC". THE PURGE, READ AND DELETE DOCUMENT RECORDS ARE HANDLED BY THE "PURGE" ROUTINE. THE DATA BASE UPDATE RECORDS HAVE BEEN GROUPED INTO BEING PROCESSED BY THESE TWO ROUTINES BECAUSE OF THE SIMILARITY OF PROCESSING REQUIREMENTS.

THE GENERAL PROCESSING FLOW IS AS FOLLOWS:

- THE CHANNEL IS INITIALIZED. IF AT ANY TIME AN 1) ERROR IS DETECTED, THE PROCESSING RETURNS TO THIS POINT.
- A-FUNCTION-IS-RECEIVED: 2)
- THE FUNCTION IS PARSED BY THE PARSE ROUTINE 3)
- "DSPTCH" IS GALLED TO DETERMINE WHICH ROUTINE IS TO BE CALLED TO PROCESS THE INCOMMING FILE. 4)
- THE ROUTINE IS CALLED. WH THE INPUT FILE IS SPOOLED. 5) WHILE - IN - THE - ROUT INE
- AFTER THE ROUTINE IS FINISHED TO THE PARTY OF THE PARTY O 6)

HOST-INPUT SK-(HITSK) MACRO-M111 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

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HOST-INPUT TASK-(HITSK) MALRO-M1110 27-MAR-80 13:26 PAGE 11 MACROS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
        .SBTTL · · MACROS ·
                                                                     : MACROS
                                                                                  .MCALL QIOW$$,WRITE$,WAIT$,OFNB$W,FINIT$
.MCALL FDBDF$.FDRC$A,FDBK$A,FSRSZ$,FDOP$A
.MCALL CLOSE$,NMBLK$
MSGSTR,STRING,?L1,?L2
.WORD L2-L1
.WORD L1
                                                                     .MACRO
                                                                     L1:
                                                                                    .ASCII- /STRING/-
                                                                     L2:
                                                                                   .EVEN-
                                                                      .ENDM-
                                                                      MACRO ENT, TYPE, ROUTIN, PACK, FID, TXLGT, ?L1, ?L2
                                                                                                                            :EXCHANGE: TYPE:
:ROUTINE TO:BE:CALLED:
:PACKING MODE:
:FILE:ID
:BYTE:LENGTH:OF:EXCHANGE:
                                                                                    . WORD
                                                                                                 TYPE
                                                                                    .WORD.
                                                                                                 ROUTIN
PACK
```

.WORD

. WORD

L2: TBLSZ\$.ENDM

FID TXLGT

L2-L1

ATTA YOUR BU

```
HOST-INPUT TASK (HITSK) MACRO-M1110 27-MAR-80 13:26 PAGE 13
DATA-BUFFERS Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                           .SBTTL . DATA BUFFERS.
       110
      111
                                                                 DATA BUFFERS
      112
113
                                                                 INPUT DATA BUFFERS
       115 000000
                                                               INBUF: .BLKB. N.BUFB.
                                                                                                                :INPUT.DATA.BUFFER
      117
                                                               : MAIN-ROUTINE-DISPATCH-TABLE-
                                                                                      5.0HL.3.FN.0RY.2048. ;QUERY/UHL
6.DOC.3.FN.DBS.2048. ;NEW-DOCUMENT-
7.PURGE.4.FN.DBS.2048. ;MDDIFY-REPLACE.
9.DOC.3.FN.DBS.2048. ;MDDIFY-REPLACE.
11..PURGE.4.FN.DBS.2046.;READ-DOC.
13..DOC.3.FN.DBS.2048. ;ADD-SUB-DOC.
14..PURGE.4.FN.DBS.2046.;DELETE.SUB-DOC.
16..QHL.2.FN.ORY.32. ;REQUEST.MASS.UPDATE
18.QHL.2.FN.DBS.32. ;END-MASS-UPDATE
0.0.0.0.0
       119 004000
                                                               TBL:
       120
            004012
                                                                           EHT
       121
            004024
004036
                                                                           FHT
      123 004050
124 004062
                                                                           EHT.
                                                                           ENT
      125 004074
126 004106
                                                                           ENT.
      127 004120
128 004132
                                                                           FNT
      129 004144
130
131
132
                                                                 I/O-STATUS-BLOCKS-
                                                                                      2 ·
2 ·
2 ·
      133 004156
134 004162
                                                              ÍOSTAT: .BLKW-
WRSTST: .BLKW-
                                                                                                   ;GET:FUNCTION:I/O:STATUS:BLOCK:
;WRITE BLOCK:I/O:STATUS:
;READ:INPUT:DATA BUFFER:I/O:STATUS:BLOCK:
       135
            004166
                                                              QIOST:
      137
138
139
                                                                    FLAG.TO INDICATE WHETHER DK1: IS ONLINE (LOGFLG = 0), OR OFFLINE (LOGFLG = 1)
                                                                                                                                                                                  i40 004172 000000
                                                              ĹOGFLG: .WORD- 0
      141
                                                                                                                                                                                     -
      142
143
144
                                                                 SPOOL-FILE-CONTROL BLOCK-
            004174
                                                              FDB:
                                                                          FDBDF$
      145 004334
146 004334
                                                                           FDBK#A -
                                                                                       INBUF, N. BUFB, , WRT. EF, WRSTST
      147
            004334
                                                                           FDOP$A: WRT.LU:
      149
150
                                                                    EXCHANGE · LOG · FILE · CONTROL · BLOCK ·
      151 004334
                                                              FDBLOG: FDBDF$
       152 - 004474
                                                                           FDRC$A . FD . RLIM .
      153 004474
154 004474
            004474
                                                                           FDBK$A
                                                                                       INBUF, N. BUFB, , WRT, EF, WRSTST
                                                                           FDOP$A - WRT.DK
      155
      156
157
            004474
                                                                          FSRSZ$ 0
       158
                                                                    DUMMY-NAMEBLOCK-TO-GET-DIRECTORY-FID FOR-LOG-FILE-
      159
      160
            004474
                                                              LOGNBK: NMBLK$ ...DK.1
      161
      162
163
                                                                    FILE · NAME/TYPE · INDEX ·
      164 004532 004536°
165 004534 004546°
                                                              FHINDX: .WORD: LGQNAM
                                                                                                                :FN.LGQ
                                                                                                                :FN.LGU
                                                                           .WORD
                                                                                      LGUNAM
                                                      Approved For Release 2005/07/ CIA-RDP85-00514R000100030001-3
```

```
HOST-INPUT
DATA-BUFFER
                   SK (HITSK) MACRO M1118 27-MAR-88 13:26 PAGE 13-1 CIA-RDP85-00514R000100030001-3
            004536
                                      072150 000000 ĹGONAM: .RAD50 /OUERY
                                                                                                         SPL/ :FN.LGQ
                         966615
       167
            004544
004546
                         074514
014545
       168
                                      062240
                                                  000000
                                                               LGUNAM: .RAD50
                                                                                        ZDBUPD.
                                                                                                         SPL/
                                                                                                                 :FN.LGU
       169
       170
171
172
173
174
175
176
                                                                      DEVICE HAME INDEX
                                                                ĎVINDX: .ASCII: /DK/
.ASCII: /DK/
             004556
                                                                                                                   :FN.LGQ
             004560
                               104
                                                                                                                   :FN:LGU
                                                                      DEVICE UNIT-INDEX-
             004562
                          000001
                                                                ÚHINDX: .WORD
                                                                                                                   :FN.LGQ
       178
179
             004564
                          000001
                                                                             .WORD
                                                                                                                   ;FN.LGU
       180
181
                                                                      DIRECTORY- NAME - DESCRIPTION
             004566
004570
004572
004575
                          000005
004572
133
                                                                DIRDS1: WORD
       182
183
                                                                                         DIRDTA
                                           067
135
                                                                DIRDT1: .ASCII - /17.41/
       184
       185
                                                                             .EVEN-
       185
186
187
188
189 004600
                                                                      DIRECTORY-FID-
                                                                DIRK74: .BLKW
                                                                                                                   :DK1:[7,4]
       190
191
192
193 004606
                                                                   ERROR · MESSAGES
                                                                                        <ACC RECEIVE ERROR = **D, PC = **20>
<FILE OPEN ERROR = **ZD, PC = **20>
<FILE WRITE ERROR = **ZD, PC = **X0>
<DIRECTIVE ERROR = **ZD, PC = **X0>
<INVALID RECORD TYPE>
<EXCHANGE LOGGING DEVICE (DK1:) NOT MOUNTED>
<LOG DEVICE ERROR **X1D, PC = **X0 = LOG DISABLED>
                                                                RCVERR: MSGSTR
       194 004652
195 004714
                                                                CPERR: MSGSTR
WRTERR: MSGSTR
       196 004756
197 005020
                                                                DIR:
IRT:
                                                                            MSGSTR
MSGSTR
       198
199
                                                                CFFLIM: MSGSTR.
LOGERR: MSGSTR.
            005050
             005126
       200
201
202
                                                                : ERROR-PARAMETER-BUFFER
       203 005206
                                                                ÉAR:
                                                                             .BLKW-
```

```
HOST INPUT TASK (HITSK) MACRO M1118 27-MAR-80 13:26 PAGE 104/28: CIA-RDP85-00514R000100030001-3
     205
     206
207
                                                           **--MAIN ROUTINE
      208
                                                           THIS-IS-THE-MAIN-ROUTINE-OF-THE-"HITSK" TASK. THIS-ROUTINIINITIALIZES-THE-CHANNEL-TO-THE-UNIVAC-HOST-COMPUTER, GETS-A-FUNCTION-WORD, PARSES IT, AND-CALLS-THE-APPROPRIATE
     209
                                                                                                                              THIS ROUTINE
     210
     211
212
213
                                                           PROCESSING ROUITHE.
     214
215
216
217
                                                           INPUT:
                                                                   NONE
                                                           OUTPUT:
     218
219
                                                                   NONE
     220
221 005232
                                                        MAIN:
     222
223
          005232
                                                                    FINIT$
                                                                                                                 : INITIALIZE THE FILE SYSTEM
     224
225
                                                              INITIALIZE-THE-FID-OF-THE-LOG-FILES DIRECTORY
                                                                                                                                                                              THE PERSON
     226
227
228
229
          005236
005242
                      005067
012700
                                  176730
                                                                               LOGFLG
                                 004334
                                                                               #FDBLOG,RØ
#LOGNBK,R1
                                                                    MOV
          · 005246
005252
                      012701
                                  004474
                                                                    MOV
                      012702
                                  004566
                                                                    MOV.
                                                                               #DIRDS1.R2
.GTDIR
     230
231
          005256
                                                                    CALL
                                                                                                                 ;GET · DIRECTORY · FID
                                                                               .GIDIR:
#DIRK74,R2:
LOGNBK+N:DID:(R2)
LOGNBK+N:DID+2.2(R2)
LOGNBK+N:DID+4.4(R2)
                      012702
           005262
                                 004600
                                                                    MOV.
     232
233
          005266
005272
                      016712
                                  177226
                      016762
016762
                                  177224
                                             999992
                                                                    MOV
     234
          005300
                                    7220
                                             000004
                                                                    MOV.
                                                                    TST.
BEQ.
                                                                               4(R2)
INL:
                                                                                                                 :IS-DK1 ONLINE?
     235 005306
                      005762
                                 000004
           005312
           005314
005320
                      005267
                                  176652
                                                                               LOGFLG.
#OFFLIN.
                                                                                                                  :SET-OFFLINE-FLAG-
                                                                    MOUT$S
     239
          005336
                                                         INI:
                                                                               240
           005336
                                                                    QIOW$S.
                       105767
     241
          005404
                                  176546
                                                                   TSTB
BLT
          005410
005412
                      002752
     243
                                                        MORE:
     244
           005412
                                                                    Q I O W$S
                                                                                #IO:RTC, *LUN1, *EF:1,, #IOSTAT,, <#INBUF, #FUCLEN, #6>
     245
          005466
                       105767
                                  176464
                                                                    TSTB
BLT
                                                                                IOSTAT:
INL:
                                                                                                                 :THERE IS AN ERROR, REINITIALIZE:
:PARSE THE INPUT FUNCTION:
:DETERMINE WHICH ROUTINE IS TO PROCESS.
           005472
                      002721
                                                                               PARSE
     247
           005474
                                                                    CALL
     248
           005500
                                                                    CALL
                                                                               DSPTCH
     249
          005504
                                                                    CALL
                                                                                (RA)
                                                                                                                  :CALL . THE . ROUTINE
     250 005506
251 005516
                                                                               #FDBL0G
                                                                    OLDSE$
     251 605516
252 005526
253
254
255
                      000731
                                                                               MORE
                                                                                                                 ;GO-GET-ANOTHER-FUNCTION-
                                                           **--PARSE ROUTINE
     256
257
                                                           THIS ROUTINE TAKES AN INPUT FUNCTION AND PARSES IT INTO ITS CONSTITUANT PARTS. IN EVERY FUNCTION THERE ARE THREE PARTS:
     258
     259
     268
                                                 1) OPTIONAL DATA: IN BITS: 0-17
2) BLOCK: COUNT: IN BITS: 18-29, AND
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     261
```

```
HOST-INPUT
DATA-BUFFE
                  ISK (HITSK) MACRO MI111 Approved For Release 2005/0712 CIA-RDP85-00514R000100030001-3
                                                                                     TRANSACTION TYPE IN BITS 30-35.
                                                                         30
      263
264
265
265
266
267
                                                                INPUT:
                                                                         NONE -
                                                                         R5 = BLOCK COUNT
R4 = OPTIONAL DATA
R3 = TRANSACTION TYPE
      268
      269
      270
      271
272
      273
274 005530
                                                             PARSE:
      275
276
277
278
                                     172250
172242
           005530
005534
                        016704
                                                                         MOV
                                                                                      IHBUF+4,R4
                                                                                                                          ; OPTIONAL DATA
                        016705
                                                                         MOV
                                                                                     INBUE+2, R5
                                                                                                                          ; GET · THE · BLOCK · COUNT
            005540
005544
                        042705
072527
                                     140000
                                                                                     #140000.R5
                                     177776
172224
172222
                                                                                                                          :R5 = BLOCK COUNT:
:GET THE TRANSACTION TYPE
                                                                         ASH.
                                                                                     #-2,R5
      279 005550
280 005554
                        016700
016701
                                                                         YOM
                                                                                     INBUF.RØ
INBUF+2.R1
                                                                         MOV
      281
282
           005560
005564
                        073027
010003
                                    000002
                                                                         ASHC
                                                                                      #2,R0
                                                                                     R0.R3
                                                                         MOV
                                                                                                                          :R3 = TRANSACTION TYPE
      203 005566
                        000207
                                                                         RETURN
      284
285
                                                                **--DSPTCH-ROUTINE
      287
288
289
                                                                THIS ROUTINE DETERMINES WHICH ROUTINE IS TO PROESS A GIVEN
                                                                TRANACTION TYPE.
      290
291
                                                                INPHT:
                                                                         R5 = BLOCK COUNT
R4 = OPTIONAL DATA
R3 = TRANSACTION TYPE
      292
293
      294
     295
296
                                                               OUTPUT:
                                                                        RØ =-ADDRESS OF-ROUTINE-TO-BE-CALLED-
      298
                                                                        R1 = FID -
R2 = ACC - PACKING - MODE -
      300
                                                                            = BYTE LENGTH OF BLOCK COMING FROM HOST
      301
      302
      303
           005570
                                                            ĎSPTCH:
           005570
     304
                       012700 004000*
                                                                        MOV-
                                                                                     #TBL,R0
                                                                                                             GET. THE ADDRESS OF THE DISPATCH TABLE
     305 005574
                                                            1$:
                                                                                                            :IS-THIS THE-END-OF-THE-TABLE-?:
:YES, GO SET-UP-FOR-ERROR-CALL-
:NO, IS-THIS-THE-CORRECT-ENTRY-?.
:NO, GO-GET-NEXT-ENTRY-
:YES, GET-THE-PACKING-MODE-
:GET-THE-FILE-ID-(FID)
:R3 = BYTE-LENGTH-OF-EXCHANGE-
:GET-THE ADDRESS-OF-THE-ROUTINE-TO-BE-CALLED-
:GO-EXIT
                       005710
     306
           005574
                                                                         TST
                                                                                     (RØ)
     307
           005576
005600
                       001416
                                                                        BEQ
                                                                                     50$
     308
                       020310
                                                                        CMP
                                                                                    R3,(R0)
     309
           005602
005604
                       001011
                                                                        BHE
                                                                                    2$
     310
                                   000004
                                                                                    4(R0),R2
6(R0),R1
10(R0),R3
                       016002
                                                                        MOV
     311
312
           005610
005614
                       016001
                                                                        MOV
                       016003
                                   000010
                                                                        MOV
     313
           005620
005624
                       016000
                                                                        MOV
                                                                                     2(R0),R0
     314
                       000405
                                                                        BR
                                                                                    99$
     315 005626
316 005626
                       062700
                                                                        ADD
                                   000012
                                                                                    #TBLSZ$,R0
                                                                                                             :POINT-RØ AT-THE-NEXT-ENTRY
:GO-LOOK AT-THE-NEXT-ENTRY-
           005632
                       000760
     318 005634
                                                    Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
```

```
HOST-INPUT TASK-(HITSK) MACRO-M1118 27-MAR-80 13:26 PAGE 14-28: CIA-RDP85-00514R000100030001-3
      319 005634
320 005640
                       012700 007262*
                                                                        MOV.
                                                                                    #ERROR,R0
                                                                                                            :GET-READY-TO-CALL THE-ERROR ROUTINE
                                                            99$:
      321 005640
322
323
                       000207
                                                                        RETURN -
                                                              THIS ROUTINE PROCESSES THE ADD. MODIFY AND OVERLAY DOCUMENT AND THE ADD SUB-DOCUMENT TRANSACTION TYPES.
      324
325
      326
327
                                                              INPUT:
      328
329
                                                                       GENERAL REGISTER SET
      330
331
332
333
                                                                       R5 = 0 IF EVERYTHING WENT OK
      334
335 005642
                                                            000:
           005642
                        012700
                                                                                                           :R0->FD8
:BUILD:THE:FILE:NAME:BLOCK:
:OPEN:THE:FILE:
:IF:ERROR:GO:DELETE:THE:FILE
                                                                        MOV.
                                                                                    #FDB.R0
                                                                        CALL
                                                                                   BLDNFL OPEN
      337 005646
      338 005652
339 005656
                        193419
                                                                        BCS
                                                                                    50$
      340
           005660
                                                            1$:
                                                                                                           :GET.A.BLOCK.OF.THE.INPUT.TRANSACTION:

:IF.ERROR.DELETE.FILE.AND.RETURN:

:WRITE.THE.SPOOL.FILE.

:IF.ERROR.DELETE.FILE.AND.RETURN:

:CONTINUE.UNTIL.ALL.BLOCKS.INPUT.
                                                                        CALL
BCS
      341
           005660
                                                                                    RECEVE
      342
           005664
                                                                                    50$
      343 005666
                                                                        CALL
                                                                                    WRITE
      344 005672
345 005674
                        103402
                                                                                    50$
                                                                        BCS
                                                                                    R5,1$
                        022502
                                                                        SOB
      346
347
           005676
                                                                                                            :GO-EXIT
           005700
                                                           50$:
                                                                                                           :R0 -> FDB.OF.SPOOL.FILE:
:ERROR.DELETE.FILE
      348
349
           005700
005704
                       012700
                                   004174
                                                                        MOV.
                                                                                    #FDB,R0
                                                                       CALL:
                                                                                    .DLFNB
      350 005710
                                                            99$:
      351
                       000207
           005710
                                                                       RETURN:
      352
353
                                                              THIS ROUTINE HANDLES THE DELETE, READ, AND PURGE DOCUMENT AND THE DELETE SUB-DOCUMENT TRANSACTIONS FROM THE HOST.
      354
      355
356
357
                                                              INPUT:
      358
                                                                       GENERAL REGISTER USAGE
      359
      360
361
                                                              OUTPUT:
                                                                       R5=0 IF-ALL-BLOCK-SUCCESSFULLY-INPUT-
      362
363
      364
      365 005712
                                                           PURGE:
      366 005712·
367 005716
                       012700
                                   004174
                                                                       MOV.
                                                                                    #FDB,R0
                                                                                                                       ;R0->FILE.CONTROL.BLOCK
                                                                                                                       #R0->FILE CONTROL BLOCK 

;BUILD A FILE NAME BLOCK 

;OPEN THE FILE 

;IF-ERROR EXIT 

;GET THE FIRST BLOCK 

;IF-ERROR CLOSE FILE AND EXIT 

;PUT IN HEADER CHAPACTERS
                                                                       CALL
                                                                                   BLDNFL
      368 005722
                                                                        CALL
                                                                                    OPEN
      369 005726
                        103431
                                                                       BCS.
                                                                                    99%
      370 005730
371 005734
                                                                        CALL
                                                                                   RECEVE
                        103424
                                                                       BCS ·
                                                                                    50$
      372 005736
373 005744
                       016767
005067
                                    172040
                                               172034
                                                                                    INBUF+2, INBUF
                                                                                                                                                                         AND THE WAY TO BE THE
                                   172032
                                                                        CLR
                                                                                    INBUF+2
      374 005750
                                                                        CALL
                                                                                                                        :WRITE THE BLOCK
     375 005
                        103414
                                                   Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

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SK. (HITSK) MACRO M1111Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
DATA BUFFE
                                                                                                                            ;DEC-INPUT BLOCK.COUNT.
;IF-NO-MORE-BLOCKS.CLOSE.AND.EXIT
                                                                          DEC -
                                                                                       R5
      376
            005756
                        005305
            005760
      378
            005762
                                                               [事:
                                                                                                                            #GET-THE-NEXT-BLOCK:
#IF-ERROR-DELETE-FILE-AND-EXIT
#WRITE-THE NEXT-BLOCK:
      379 005762
380 005766
                                                                           CALL
                                                                                       RECEVE
                         103407
                                                                          BCS -
                                                                                       58$
      381 005770
382-005774
                                                                           CALL
                                                                                       WRITE
                         103404
                                                                                                                            ; IF ERROR, DELETE FILE AND EXITE CONTINUE UNTIL ALL BLOCKS INPUT
                                                                          BCS
                                                                                       50$
      383
            005776
                                                                          SOB-
      384
            006000
                                                              2$:
            006000
006004
      385
                                                                           CL0SE$
                                                                                                                            ; ERROR, CLOSE FILE AND EXIT
      386
                        000402
                                                                                       99$
      387
            006006
                                                              50$:
                                                                          CALL:
                                                                                       .DLFNB
                                                                                                                            ; ERROR . DELETE . FILE . AND . EXIT
      388 006006
      389
390
            006012
                                                              99$:
                                                                          RETURN-
                        000207
            006012
      391
392
      393
394
                                                                 **--QHL - ROUTINE -
                                                                 THIS ROUTINE PROCESSES THE QUERY/HIT LIST TRANSACTIONS THE QUERIES ARE INPUT IN ONE FORMAT AND THE HIT LISTS ARE INPUT IN ANOTHER FORMAT.
      395
      396
      397
      398
      399
       400
                                                                          GENERAL REGISTER USAGE
      49.1
      402
                                                                 OUTPUTS:
      493
                                                                          NONE
      405
            006014
                                                              OHI :
            006014
      406
                        012700
                                                                                                                ;RO->FILE · CONTROL · BLOCK
      407
                                                                                                                :BUILD A FILE NAME BLOCK :OPEN THE FILE
                                                                          CALL
                                                                                       BLDNFL .
      408
409
            006024
006030
                                                                           CALL
                                                                                       OPEN
                                                                                                               :OPEN THE FILE
:IF ERROR EXIT
:R4=NO OF QUERY BLOCKS, R5=NO OF HRL BLOCKS
:GET THE FIRST BLOCK
:IF ERROR DELETE THE FILE AND EXIT
:PUT QUERY BLOCK COUNT INTO BUFFER
:WRITE THE BLOCK TO THE SPOOL FILE
:IF ERROR, DELETE THE FILE AND EXIT
:CONVERT ASCII GID TO BINGRY
:SAVE R4 AND R5 FOR BUILDING THE...
                         103456
                                                                          BCS
                                                                                       99$
      410 006032
411 006034
                         160405
                                                                          SUB
                                                                                       Ř4, R5
                                                                          CALL
                                                                                       RECEVE
      412
           006040
006042
                         103503
      413
                        010467
                                     171734
                                                                                       R4.INBUF+2
                                                                          MOV
                                                                                       WRITE
      414 006046
                                                                          CALL
      415 006052
                         103476
                                                                          BCS -
                                                                                       50$
      416 006054
417 006060
                                                                           CALL
                                                                                       COHVRT
                        010446
                                                                          MOV
                                                                                       R4.-(SP)
                                                                                                                ; JF - NO - MORE - QUERY - BLOCK S. GET - HRL*S
                        010546
005304
      418 006062
                                                                          MOV
      419
            006064
                                                                          DEC
                                                                                       R4
      428
            006066
                        001407
                                                                          BEQ
                                                                                       2$
                                                              1$:
                                                                                                                GET-NEXT-OUERY-BLOCK:
IF-ERROR, DELETE-FILE-AND-EXIT-
WRITE-THE-FILE:
IF-ERROR, DELETE-FILE-AND-EXIT-
      422 - 006070
                                                                          CALL
                                                                                       RECEVE
      423
           006074
                         103465
                                                                          BCS -
                                                                                       50$
                                                                                       WRITE
      424 006076
                                                                          CALL
           006102
006104
      425
                                                                                       50$
                                                                          SOB
                                                                                                                GO GET ANOTHER QUERY BLOCK
      426
                        977497
                                                                                       R4.15
      427
428
           006106
                                                              2$:
      429
                                                                 INPUT-HRL-BLOCKS-
      430
      431 006106
                        005705
                                                                                                                :ANY-UHL'S?
      432-006110
                        003426
                                                     Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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HOST-INPUT TASK-(HITSK) MACRO-M1110 27-NAR-80 13:26 PAGE-14-4
DATA-BUFFERS- CIA-RDP85-00514R000100030001-3
DATA-BUFFERS
                                                                                                                                                                                           CHANGE TO PACKING MODE 4

RR3 = INPUT BLOCK'S BYTE LENGTH-

KGET FIRST BLOCK OF HRL'S

FIF ERROR DELETE FILE AND EXIT
          433 006112-
                                        B127B2
                                                              999994
                                                                                                                             MOV
                                                                                                                                                  #4.R2.
           434
                    006116
                                        012703
                                                                                                                             MOV-
                                                                                                                                                   #2046.,R3
                                                              003776
          435
                    886122
                                                                                                                             CALL
                                                                                                                                                  RECEVE .
                    006126
                                          103450
                                                                                                                             BCS.
                                                                                                                                                   50$
                                                                                                                                                  INBUF+2, INBUF
                                                                                                                                                                                           PDT: IN PROPER BLOCK ID:
#WRITE TO THE SPOOL FILE
#IF ERROR DELETE FILE AND EXIT
#DEC INPUT HR. BLOCK COUNT
          437
                   996139
                                         016767
                                                              171646
                                                                                 171642
                    006136
                                                                                                                             CALL
                                                                                                                                                  WRITE
          439
                   006142
                                         103442
                                                                                                                            BCS.
                                                                                                                                                  50$
                    006144
                                                                                                                                                                                            : IF ALL INPUT CLOSE FILE AND EXIT
          441
                    006146
                                         001402
                                                                                                                             BEO
                                                                                                                                                  994
           442
                    006150
                                                                                                        3$:
                                                                                                                                                                                           ;GET.NEXT.HRL.BLOCK.
;IF.ERROR, DELETE.FILE.AND.EXIT.
;WRITE.BLOCK.TO.SPOOL.FILE.
;IF.ERROR, DELETE.FILE.AND.EXIT.
;CONTINUE.UNTIL.ALL.BLOCKS.INPUT
                                                                                                                             CALL
                                                                                                                                                  RECEVE
           443
                    006150
                                                                                                                                                 50$
WRITE
           444
                    006154
                                         103435
          445 006156
                                                                                                                             CALL:
           446
                    006162
                                          103432
           447
                    006164
                                         077507
                                                                                                                             SOB.
                                                                                                                                                  R5.3$
           448 006166
                                                                                                        99$:
                                                                                                                             CLOSE$
                                                                                                                                                                                           :CLOSE FILE
           449 006166
          450
451
                                                                                                             BUILD-THE-CONTROL-BLOCK-THAT IS-SENT-TO-MSCHED-
           452
           453
                    006172
                                                                                                                             CALL -
                                                                                                                                                  GETFRE.
                                                                                                                                                                                           :GET-A-PACKET-FROM COMMON-
          454 006176
455 006202
                                                                                                                                                                                           #GET-THE NO. OF-HRL-BLOCKS
#GET-THE NO. OF-GRY-BLOCKS
#GET-THE EGID-
                                         012662
012662
                                                              0000004
                                                                                                                             MOV.
                                                                                                                                                   (SP)+,4.(R2)
(SP)+,2.(R2)
                                                              000002
                                         010162
016062
016062
           456
                    006206
                                                              авава6
                                                                                                                             MOV
                                                                                                                                                  R1.6.(R2)
                                                                                                                                                 ### SECTION OF THE FILE OF THE FILE OF FIFTH OF THE FILE OF FIFTH OF THE FILE OF FIFTH OF THE FILE OF 
          457
458
                    006212
                                                              000102
                                                                                   000010
                                                                                                                             MOV
                                                              000104
                                                                                   000012
                                                                                                                             MOV.
                                                                                                                             MOV.
           459
                     006226
                                         016062
                    006234
           460
                                         012762
                                                              000020
                                                                                   000016
           461
                    006242
                                                                                                                             CALL
          462 006246
463 006250
464 006250
                                         000207
                                                                                                                             RETURN
                                                                                                        50$:
                                                                                                                             CALL -
                                                                                                                                                   .DLENB
                                                                                                                                                                                           465
                                                                                                                                                  (SP) + . (SP) +
                                                                                                                             RETURN.
          466 006254
                                         000207
                                                                                                                                                                                           :FXIT-
           467
          468
          469
470
                                                                                                             **--RECEVE - ROUTINE
           471
                                                                                                             THIS ROUTINE INPUTS A BLOCK FROM THE ACCILINK
          472
473
                                                                                                             INPUTS:
           474
                                                                                                                            GENERAL · REGISTER · USAGE
          476
477
                                                                                                             OUTPUTS:
                                                                                                                             IF AN ERROR WAS DETECTED THE "C" BIT WILL BE SET, ELSE IT IS CLEARED.
          478
          480
          482 996256
                                                                                                        RECEVE:
           483 006256
                                                                                                                             MOV
                                                                                                                                                  R4,-(SP)
                                         010446
                                                                                                                                                                                                                 :SAVE - R4
                                                                                                                             QIOW$S
                                                                                                                                                  #IO.RLB, #LUN1, #EF.1,, #QIOST,,<#INBUF,R3,R2>
          484 006260
                                          105767
                                                              175632
                                                                                                                              TSTB.
                                                                                                                                                  QIOST
                                                                                                                                                                                                                 :NO ERROR, RETURN:
:GET ERROR CODE:
:INTO ERROR:PARAMETER:
          486 006334
                                         003021
                                                                                                                             BGT
                                                                                                                                                  90$
          487 006336
                                          116704
                                                              175624
                                                                                                                             MOVB
                                                                                                                                                  QIOST R4
R4 PAR
                                                                                                                             MOV
          488 006342
                                         010467
                                                              176640
                                                                                   <sup>176534</sup>Approved For Release 2005/07/29 CIA-RDP85-00514R000100030001-3
          489 006
                                         016667
                                                              000002
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HOST-INPUT SK (HITSK) MACRO M1111 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                 MOUT$S . . *RCVERR, *PAR
                                                                                                            : ISSUE · ERROR · MSG
          006374
- 006376
- 006400
                                                                 SEC
BR
     491
                     000261
                     000401
     493
                                                      90$:
                     000241
                                                                 CLC.
     495 006402
                                                      99$:
     496
          006402
                                                                 MOV-
                                                                            (SP) + R4
                                                                                                            :RESTORE - R4
     497
          006404
                     000207
                                                                 RETURN -
     499
     500
501
                                                         **-- OPEN ROUTINE
     502
                                                         THIS ROUTINE OPENS THE CORRECT SPOOL FILE AND THE CORRECT EXCHANGE LOG FILE
     503
     504
     585
                                                                 GENERAL REGISTER USAGE, AND RO->FDB
     506
507
                                                        OUTPUTS:
                                                                 IF ERROR-THE "C" BIT-IS-SET, ELSE-IT-IS-CLEARED
     509
     510
511
          006406
                     010046
                                                      OPEN:
                                                                 MOV.
                                                                            R0 = (SP)
                                                                                                            ;SAVE - RØ
     512
513
          006410
                                                                 MOV.
                                                                           R4,-(SP)
                                                                                                            :SAVE - R4
          006412
                                                                 OFNB$U-
                                                                                                            OPEN FILE FOR WRITTING
IS THERE AN ERROR?
     514 006412
514 006424
515 006430
516 006432
517 006436
518
                     105760
003451
                                000052
                                                                 TSTB.
                                                                           F.ERR(R0)
                                                                BLE ·
TST ·
                                                                           995
                                                                                                            :HO, RETURH
                     005767
001067
                                175534
                                                                            LOGFLG
                                                                                                            :IS-DK1 OFFLINE?
                                                                BNE
                                                                           93$
                                                                                                            :BRANCH IF YES
                                                           OPEN: THE: CORRECT EXCHANGE: LOG: FILE:
     520
          006440
                     020127
                                000020
                                                                 CMP
                                                                           R1.#FN.QRY
                                                                                                           ;QUERY.?.
;BRANCH.IF YES:
;DBU.LOG.FILE.
     522
          006444
                     001403
012701
                                                                BEQ.
MOV:
                                                                           91$
#2,R1
     523
524
          006446
                                000002
          006452
                     000402
                                                                           92$
#0,R1
     525
526
527
                                                                                                           #QUERY-LOG FILE:
#RØ->FDB:OF-LOG-FILE
#BUILD-FILENAME-BLOCK:
#OPEN-LOG-FILE:
          006454
                     012701
                                000000
                                                                MOV.
          006460
                     012700
                                0043341
                                                     92$:
                                                                MOV-
CALL
                                                                           #FDBLOG,R0
          006464
                                                                           BLDLOG .
     528
         006470
                                                                OFNB$W∙
TSTB∙
     529
          006502
                     105760
                                000052
                                                                           F.ERR(R0)
                                                                                                            : FRROR. 2
                                                                                                           :BRANCH-IF NO:
:SHOW-DK1 OFFLINE
:R4 =-OPEN ERROR-
     530
          006506
                     003043
                                                                BGT.
         006510
006514
     531
                                175456
                                                                           LOGFLG.
     532
533
534
                     116004
                               000052
                                                                           F.ERR(R0),R4
R4,PAR
                                                                MOVB
         006520
006524
                     010467
                                176462
                                                                MOV-
                                                                           4(SP),PAR+2
                    016667
                               000004
                                          176456
                                                                MOV
                                                                                                           ;ADD'S-OF-CALLING-ROUTINE
    535
536
537
         006532
                                                                           #LOGERR, #PAR
                                                                MOUT$S.
         006552
                     000421
         006554
006560
006564
                     116004
                                                                MOVB ·
MOV ·
MOV ·
     538
                               000052
                                                                           F.ERR(R0),R4
R4,PAR.
4(SP),PAR+2.
                                                     90$:
                                                                                                           ;YES, GET-ERROR-VALUE-
                    010467
016667
    539
     540
                               000004
                                          176416
                                                                                                           :GET-ADDR-OF-CALLING ROUTINE
    541
542
         006572
006612
                                                                MOUT$S
                                                                           #OPERR, #PAR
                                                                                                           ; ISSUE THE ERROR MESSAGE
                     000261
                                                                SEC
    543 006614
                    000401
    544 006616
                                                     93$:
    545 006616
                    000241
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HOST-INPUT TASK-(HITSK) MACRO-M1110 27-MAR-80 13:26 PAGE-14-6
DATA-BUFFERS- Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     547 006620
548 006622
                      012604
012600
                                                                     MOV.
                                                                                 (SP) + .R4
                                                                                                                   :RESTORE - R4
                                                                     MOV.
                                                                                 (SP) + .R0
                                                                                                                   : RESTORE - RØ
      549 006624
550
                       000207
                                                                     RETURN.
     551
552
553
554
                                                            BUILD FILE NAME BLOCKS IN FDB
                                                                      .MCALL · FDOF$L,FCSBT$
      555 006626
556 006626
                                                                     FD0F$L
                                                                     FCSBT$
      557
      558
559
                                                            BLDNFL - BUILD FILE NAME BLOCK FOR NEW FILE
                                                               INPUT: R0 - FDB-ADDRESS-
R1 - FILE NUMBER-(FN.XXX)
OUTPUT: ALL-REGISTERS-PRESERVED-
      560
      561
      562
      563
                                                                                                       ; POINT: TO: FILE: NAME: BLOCK:
      564 006626
                                                         BLDLOG:
                                                                     ADD.
                                                                                 #F.FNB.R0
      565 006632
566 006636
                                                                     CLR
CLR
                                                                                H.FID(R0)
H.FID+2(R0)
                       005060
                                  ававая
                                                                                N.FID+4(R0)
R2,-(SP)
      567
           886642
                       005060
                                  000004
                                                                     CLR
      568
           006646
                       010246
                                                                                                      :SAVE:R2
:FILE:NAME/TYPE:ADDRESS
:FILE:NAME/TYPE:IN FDB:
                                                                     MOV
                                                                                FNINDX(R1),R2
(R2),N.FNAM(R0)
                                  004532
                                                                     MOV:
      569 006650
                       016102
      570
           006654
                       011260
                                  000006
                                                                                2(R2).N.FNAM+2(R0)
4(R2).N.FNAM+4(R0)
6(R2).N.FTYP(R0)
H.FYER(R0) ;V
      571
           006660
                       016260
                                  000002
                                              000010
                                                                     MOV
                       016260
                                  000004
                                              000012
                                                                     MOV
                       016260
005060
                                                                     MOV
CLR
      573
           006674
                                  000006
                                              000014
                                                                                                      )

:VERSION IS-ZERO-
:CLEAR-STATUS-
:CLEAR-WILD-CARD-WORD-
:R2-> DIRECTORY-FID-
:DIRECTORY-FID-IN-FDB-
      574
           006702
                                  000016
           006706
006712
006716
      575
                       995969
                                  000020
                                                                     CLR
CLR
                                                                                H.STAT(R0)
H.NEXT(R0)
                       005060
                                  000022
                                                                                #DIRK74,R2 ;
(R2),N.DID(R0) ;
(R2),N.DID+2(R0)
4(R2),N.DID+4(R0)
                       012702
011260
                                                                     MOV.
      577
                                  004600
           006722
                                   000024
      579
           006726
                       016260
                                  000002
                                              000026
                                                                     MOV
      580
           006734
                       016260
                                  000004
                                              000030
                                                                     MOV
                                                                                                       9M(RØ) ;DEVICE HAME:
IT(RØ) ;DEVICE UNIT:
;RESTORE R2
;RESTORE RØ
      581
           006742
                       016160
                                  0045561
                                              000032
                                                                     MOV
                                                                                DVIHDX(R1),H.DVHM(R0)
UHIHDX(R1),H.UHIT(R0)
           006750
                       016160
                                   0045621
                                                                     MÖŸ
      583 006756
                       012602
                                                                     MOV
                                                                                 (SP) + .R2
                                  000102
                                                                     SUB
                                                                                 #F.FNB.R0
      585 006764
                       000207
                                                                                                       : RETURN
      586
      587
      588
                                                            **--WRITE ROUTINE
      589
      590
591
                                                            THIS ROUTINE WRITES A BLOCK OF DATA TO THE SPOOL FILE AND TO THE EXHANGE LOG FILE.
      592
      593
                                                            INPUTS:
                                                                                                                                                                                  --- PET
      594
595
                                                                     GENERAL REGISTER USAGE AND RO->THE FDB OF THE SPOOL FILE.
      596
597
598
                                                                                                                                                                                  ~ LAME
                                                            OUTPUTS: IF THERE IS AN ERROR THE "C" BIT IS SET, ELSE THE "C"BIT IS
                                                                     CLEARED.
      600
                                                                                                                                                            A PARTITION OF THE PARTY OF THE
      601
      602-906766
                       010046
                                                                     MOV.
                                                                                RA.-(SP)
                                                                                                                   ;SAVE R0
                                                                                                                                                             to be the stage of the stages
                                                  Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      603 006270
                       010446
```

```
HOST-INPUT SK (HITSK) MACRO M1118 27-MAR-80 13:26 PAGE 14-72 CIA-RDP85-00514R000100030001-3
                                                                          WRITE$
                                                                                      .....DIRERR
      604 006272
                                                                                                                           :WRITE THE BLOCK
      605
            007004
                                                                          WAIT$
                        105767
                                                                          TSTB BGT
                                                                                      WRSTST.
                                                                                                                           :IS-THERE-AN-ERROR-?
      606
            007010
                                     175146
           007014
                        003021
                                                                                      90$
WRSTST,R4
                                     175140
176160
                                                                          MOVE
                                                             915:
      608
                        116794
                                                                          MOV.
                                                                                      R4.PAR
      610
            007026
                        016667
                                     000004
                                                 176154
                                                                          MOV
                                                                                      4(SP).PAR+2
     611
612
613
614
615
616
           007034
007054
                                                                          MOUT$S
                                                                                      #URTERR, #PAR
                        000261
                                                                          SEC
            007056
                        000443
                                                                    WRITE-TRANSACTION-LOG-FILE TO-DK
     617
618
            007060
                        005767
                                     175186
                                                             98:
                                                                          TST
                                                                                      LOGFLG.
                                                                                                                           ; IS DK1 OFFLINE?
            007064
                        001040
                                                                          BHE
                                                                                                                           ; BRANCH IF YES
                                                                                      99$
     619
620
            007066
                                                                          LIR LITES
                                                                                      #FDBLOG,,,,,,DIRERR
           007066
007104
007114
007120
007122
007126
007132
                                                                                      #FDBLOG
                                                                          WAIT$
      621
                         105767
                                     175042
                                                                          TSTB BGT -
                                                                                      WRSTST
92$
      622 ·
                        003021
005267
                                                                                                                           :BRANCH · IF NO · ERROR
                                     175944
                                                                                      LOGFLG
WRSTST,R4
                                                                                                                           :SHOW DK1 OFFLINE
:R4 = WRITE ERROR
                                                                          THE
      624
                                                                          MOVB
     625
626
627
                        010467
                                     176959
                                                                          MOV.
                                                                                      R4, PAR
                                                                                      4(SP),PAR+2
                                                                                                                           :ADD'S-OF-CALLING-ROUTINE
            007144
                                                                          MOUTSS
                                                                                      #LOGERR, #PAR
     628 ·
     629 007164
630 007166
631 007166
632 007170
633 007172
                        000241
                                                             92$:
                                                                          CLC.
                                                                          MOV.
                        012604
                                                                                      (SP) + .R4
                        012600
                                                                         MOV-
RETURN
     634
635
                                                                CONVERT: THE ASCII QUEUE: ID: TO:BINARY: THE STRING TO:BE CONVERTED IS INTHE INPUT: BUFFER: A:ZERO.WORD: IS:MOVED: INTO:THE WORD:FOLLOWING:THE: 4 ASCII:STRING:TO:TELL:THE:SYSTEM:CONVERSION:ROUTINE:TO:STOP: AFTER CONVERSION:THE:CLEARED:WORD:IS:RESTORED.
     636
637
     638
639
     649
     641
                                                                INPUTS:
     642
                                                                         NONE
      643
     644
                                                                OUTPUTS:
      645
                                                                         RI = THE BINARY VALUE OF THE ASCII NUMERIC STRING
     646
     647
648
     649 007174
650 007174
                                                             CONVRT:
                        010046
                                                                         MOV
                                                                                     R0.-(SP)
R2.-(SP)
     651
           007176
                        010246
016746
                                                                         MOV
                                                                                                                          :SAVE-THE-TERMINATOR CHARACTERS-
:RØ->START OF THE-STRING-
:CONVERT-THE-STRING-TO-BINARY-
:RESTORE-THE-TERMINATOR-CHARACTERS-
     652
           007200
                                    170604
                                                                                      INBUF+8.,-(SP)
#INBUF+4.,R0
                                                                         MOV
     652.007200
653.007204
654.007210
655.007214
656.007220
657.007222
                        012700
                                    000004*
                                                                         CALL
                                                                                     $CDTB
                       012667
012602
012600
                                    170570
                                                                                      (SP)+,INBUF+0.
(SP)+,R2
                                                                         MOV
                                                                         MOV
                                                                                      (SP)+.R0
           007224
                        000207
                                                                         RETURN.
     659
                                                     Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
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HOST-INPUT TASK-(HITSK) MACRO-M1110 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
      661
662-
663
664
665
666
667
668
670
671
672-
673
007226
674
007226
675
007240
677
007260
679
680
681
682
683
683
                                                                  **--DIRERR ROUTINE
                                                                   THIS ROUTINE REPORTS DIRECTIVE ERRORS
                                                                   INPUTS:
NONE
                                                                  OUTPUTS:
                                                                            OUTPUT ERROR MESSAGE
                                                               DIRERR:
                         016767
011667
                                      000000G-175752
                                                                                       $DSW.PAR
(SP).PAR+2
#DIR.#PAR
                                                                                                                               :GET-THE-DIRECTIVE-STATUS-ERROR:
:GET-ADDRESS-OF-CALLING-ROUTINE-
:OUTPUT-ERROR-MESSAGE-
                                                                            MOV.
                                                                            MOV:
MOUT$S:
RETURN:
                         000207
                                                                  ERROR · REPORTING · ROUTINE ·
                                                                  INPUTS:
NONE
                                                                  OUTPUTS:
NONE
      686
687
688
689
      690 007262
691 007262
692 007300
693
                                                               ERROR:
                                                                            MOUT$S.
                                                                                         #IRT
                                                                                                                               :REPORT - THE - ERROR -
                         000207
                                                                            RETURN.
                                                               ; жжжжжжжжжж
                         005232
      694
                                                                            .END
                                                                                        MAIN
```

```
SK (HITSK) MACRO M1118 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
HOST-INPUT
SYMBOL: TAE
BITVAL = - 000000
                                                        010 FDBLOG
                               B:QMAP
                                         000234
                                                                                            EO.URT≕ 000016
                                                                       004334R
                                                                                                                                     005020R
                                                        010 FD.BLK=
010 FD.CCL=
BIT0
                               B.QSPL
                                                                       000010
                                                                                            FUCLEN= 000006
                                                                                                                           LGQNAM-
                                                                                                                                     004536R
BITI
          000002
                               BLOTTM
                                         000076
                                                                       000002
                                                                                            F.ACTL = 000076
                                                                                                                           LIGHNAM
                                                                                                                                     004546R
BITIO
                                         000056
                                                        010 FD.COM=
          002000
                                                                                              ALOC=
                                                                                                                           LOGERR
                                                                                                                                     005126R
                                                        010 FD.CR -
BIT11
                                                                                                                          LOGFLG
LOGNBK
          004000
                               B.SEDB
                                         000010
                                                                       000002
                                                                                              .BBFS= 000062
                                                                                                                                     004172R
                                                        010 FD.DIR=
010 FD.FID
BIT12
          010000
                                         000772
                                                                                              BDB - = - 000070
                                                                                                                                     004474R
                                                                                                                                     000001
BIT13
          020000
                               B.SNDP
                                         000012
                                                                       000000
                                                                                       993
                                                                                              .BGBC = - 000057
                                                                                                                           LUN1
          040000
                               B.SSQ
                                         000004
                                                             FD.FNB
                                                                                       003
                                                                                              BKDH= 000026
                                                                                                                           M.
                                                                                                                                     000062
                                                                                                                           MAIN
                               B.SSOF
BITIS
          100000
                                         999959
                                                        010 FD FTN=
                                                                       000001
                                                                                              BKDS=-000020
                                                                                                                                     005232R
                                                        010 FD.FVR
010 FD.F11=
BIT2
                               BISTAT
                                                                       000004
                                                                                       003
                                                                                              BKEF = . 000050
                                                                                                                          MORE
                                                                                                                                    005412R
BIT3
          000010
                               B. STIE
                                         000053
                                                                       040000
                                                                                              .BKP1=-000051
                                                                                                                           MSGOUT=
                                                                                                                                    ********
000002
                                                                                                                                             GX
                                                        010 FD.INS=
FD.ISP=
FD.LEH
                               B.UDOC
                                                                                              BKST= 000024
          000020
                                         000110
                                                                       000010
                               CF.80
CF.82
                                                                                              .BKVB=-000064
.CHR-=-0000075
                                                                                                                           NB.DEV=.000200
BITS
          000040
                                         000070
                                                                       002000
BIT6
                                                                                                                           NB.DIR=
                                                                                                                                    000100
BITZ
          000200
                               CF:B4
                                         ричие
                                                             FD.MHT=
FD.OSP=
                                                                       100000
                                                                                              CNTG= 000034
                                                                                                                          NB.NAM= 0000004
NB.SD1= 000400
                               CF.B6
                                                                                              .DFNB≃.000046
BIT8
          000400
                                         000065
                                                                       004000
                                                                                                                          NB.SD2=
NB.SNM≃
BIT9
          001000
                               CF.DR0= 000064
                                                             FD.PLC=

    คคคคค4

                                                                                              DSPT= · NANA44
                                                                                                                                    001000
BLDL0G
          006626R
                               CF.DR1=
                                                              FD.PRH=
                                                                       000004
                                                                                              DVHM=
                                                                                                     000134
                                         000063
                                                                                                                                    000040
BLDNFL=
          жжжжжж СХ
                               CH. AND=
                                         000001
                                                             ED.PSE=
                                                                       010000
                                                                                            F.EFBK= 000010
F.EFN = 000050
                                                                                                                          NB.STP=
NB.SVR=
                                                                                                                                    000026
BS.CLS-
          000002
                               CONVRT
                                                              FD.RAH≕
                                                                                                                                    000010
                                                                                                                          NB.TYP=
BS.DBU=
BS.INA=
          000004
                               DBSLEN=
                                         000116
                                                              FD.RAN=
                                                                       . 000002
                                                                                            E.EORR = - 000032
                                                                                                                                    000002
          000000
                               DH.BF0
                                         000002
                                                        005
                                                             FD.REC=
                                                                       000001
                                                                                              ERR =
                                                                                                     000052
                                                                                                                                    000001
BS: OPN=
          000001
                               DH:BF1
                                         000004
                                                        005
                                                             FD.RWM=
                                                                       000001
                                                                                            F:FACC=:000043
                                                                                                                          N.BFAC=
N.BHGH=
                                                                                                                                    000004
BS.SRC=
                               DH.CTL
DH.DMC
                                         000000
                                                        005
                                                             FD.SDI=
                                                                       000020
                                                                                                                                    000006
BYTE0
                                                             FD.SQD=
FD.TTY=
FD.WBH=
          000000
                                         000010
                                                        005
                                                                       000040
                                                                                            F.FNAM≕.000110
                                                                                                                          N. BTCH=
                                                                                                                                    аааааа⊿
BYTE I
          000001
                               DH.FLG
                                         000006
                                                        005
                                                                       0000004
                                                                                            F.FNB·= 000102
F.FTYP= 000116
                                                                                                                           N.BUFB=
                                                                                                                          N.BUFW= 002000
N.DID = 000024
BYTE2
                               DIR
                                         004756R
                                                                       000002
                                                             FF.CHR=
FF.NV=
                                                                                            F.FVER- 000120
F.HIBK- 000004
BYTE3
          дарараз
                               DIRDS1
                                         004566R
                                                                       000005
                                                                                                                          H.DID.
BYTE4
          000004
                               DIRDTI
                                         004572R
                                                                       000003
                                                                                                                          N. DVNM=
                                                                                                                                    999932
BYTE5
          000005
                               DIRERR
                                         007226R
                                                             FF.POE=
FF.RWD=
                                                                       000002
                                                                                            F.LUN =
                                                                                                     000042
                                                                                                                          N.FID = .
N.FNAM= .
BYTE6
BYTE7
                               DIRK74
                                                                                            F:MBCT=
                                                                                                     000054
                                                                                                                                    равава
                                                        013
013
                                                            FF.RWF=
FF.SPC=
                                                                                            F.MBC1=
                                                                                                                          N.FOS - 000764
N.FTYP - 000014
          000007
                               DH: DCK
                                         ававаа
                                                                       000006
                                                                                                     000055
BYTE8
          000010
                               DH.HTP
                                                             FF.SPC
                                                                       000004
                                                                                                      000056
                                                                                           F.NRBD=
F.NREC=
F.OVBS=
F.RACC=
BYTE9
          000011
                               DHINXT
                                         000006
                                                        013
                                                                       004532R
                                                                                                     000024
                                                                                                                          N.FVER= 000016
                               DH.ROT
BYTVAL =
B.BSTA
          000012
                                         000002
                                                             FH.DBR
                                                                                                     000030
                                                                                                                          N:NEXT=:000022
                         010
          000054
                              DH.SIZ
                                                             FH.DBS
FH.DHR
                                         000010
                                                        013
                                                                       000022
                                                                                      011
                                                                                                     000030
                                                                                                                          N.PKSZ=
B:CNTX
          000046
                         010
                                                                                      011
                                                                                                      000016
                                                                                                                          N.PKTS= 000043
B.CQUQ.
                              DSPTCH
          000060
                                         005570R
                                                                                           F.RATT=
F.RCHM=
                         010
                                                             FN.EMA
                                                                       000012
                                                                                      011
                                                                                                     000001
                                                                                                                          H.QURY=
                                                                                                                                    000031
B.FEMA
B.FEMB
          000132
                         010
                              DVINDX
                                         004556R
                                                             FH.EMB
                                                                                      011
                                                                                                      000034
                                                                                                                          N.STAT=
N.SUNT=
N.UNIT=
                                                                                                                                    000020
                                                                                             .RCTL=
.RSIZ=
          800142
                         010
                              EF:1
                                        000001
                                                             FH. EMC
                                                                       000016
                                                                                      011
                                                                                                      000017
B.FEMC
B.FFSA
          000152
                         010 ERROR.
010 FA.APD=
                                                             FN.FSA
FN.FSB
                                                                                                      000002
                                                                                                                                    000034
          000202
                                        000100
                                                                       000002
                                                                                      011
                                                                                             .RTYP=
                                                                                                      ававава
                                                                                                                          OFFLIN-
                                                                                                                                    005050R
          000212
                              FA.CRE = 000010
FA.DLK = 001000
BIFFSB
                         010
                                                             FM.FSC
                                                                       000004
                                                                                       ē11
                                                                                              SEQN=
                                                                                                      000100
                                                                                                                          OPEN
                                                                                                                                    006406R
B.FFSC
          000222
                         010
                                                             FN.LGQ
                                                                       000034
                                                                                      011
                                                                                              SPDV=
                                                                                                     000072
                                                                                                                          OPERR
PAR
                                                                                                                                    004652R
005206R
B. EMHR
          000172
                         010 FA.ENB=
010 FA.EXC=
                                                             FN.LGU
FN.MFO
                                                                       000036
B.FQLS
          000162
                                        002000
                                                                                                                          PARSE
                                                                       000024
                                                                                      011
                                                                                              STBK=
                                                                                                     000036
                                                                                                                                    005530P
B.FSAZ
B.FSBZ
                         010 FA.EXT=-
010 FA.NSP=-
          000100
                                        000004
                                                             FH.MHR
                                                                       000010
                                                                                                      000136
                                                                                                                          PAR$$$=
                                                                                                                                    000027
          000102
                                                             FN. HMB
                                        000100
                                                                       000044
                                                                                      011
                                                                                              .URBD=
                                                                                                     000020
                                                                                                                          PURGE
                                                                                                                                    005712R
B.FSCZ
B.HBLK
                         010 FA.POS=
010 FA.RD =
                                                             FN.QLS
FN.QRY
          000104
                                        010000
                                                                       000006
                                                                                           F.VBN =
F.VBSZ=
                                                                                                                          PUTQUB=
                                                                                                                                    жжжжжж БХ
          000120
                                        000001
                                                                                                                          QE.RO1=
OHL
                                                                       000020
                                                                                      011
                                                                                                     ававава
                                                                                                                                    000144
                         010 FA.RWD=
010 FA.SEQ=
                                                             FH.SF0
FH.SF1
                                                                                      011
011
B. HDOC
          000114
                                        004000
                                                                       000036
                                                                                                                                     006014R
B.HRLP
          000126
                                        040000
                                                                       000032
                                                                                           INBUF -
                                                                                                      999999R
                                                                                                                          DIDST
                                                                                                                                    004166R
B. HRI R
          000122
                         010
                              EA.SHR=
                                        999949
                                                             FH.SHD
                                                                       000042
                                                                                                                                    000004
                                                             FO.APD=
B.HRLW
                         010 FA.TMP=
          000124
                                        000020
                                                                                            IOSTAT-
                                                                       000106
                                                                                                     004156R
                                                                                                                          Q.NQBK
                                                                                                                                    иврава
B. HMBR
          000052
                         010 FALUCKE
                                        020000
                                                             FO.MEY=
                                                                       999992
                                                                                            IO.INL= ****** GX-
IO.RLB= ****** GX-
                                                                                                                          Q. NUHL
                              FA.WRT=
                                                             FO.RD =
                         010
                                        000002
                                                                       000001
                                                                                                                          0.SIZE
                                                                                                                                    000014
B.QLSZ
          000106
                         010 FDB
```

004174R FD. UPD = 909996 CIA-RDP85-00514R000100030001-3

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004606R

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HOST INPUT TASK (HITSK) MACRO M1110 27-MAR-90 13:26 PAGE 14-10 SYMBOL TABLE Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                     002·SU.IDL=-000000
002·SU.LOD=-000001
002·SU.SRC=-000002
RECEVE -
            006256R
                                     SR.SUN
                                                  000000
                                                                                                                 WORD0 = 000000
                                                                                                                                                      XHI MER = : 000002
R.FIX =
R.SEQ =
                                     SR.TWS
SR.WSL
                                                                                                                 WORD1 = 000002
WORD2 = 000004
            annan i
                                                  000056
                                                                                                                                                      XHOTSK= 000010
            000003
                                                  000052
                                                                                                                                                      XMSCHE = - 000000
                                                                     002 SU.SRR = 000005
002 SU.XPD = 000003
R. VAR - =
            คดดดดอ
                                     SR.YR.
SR.1IH
                                                  999994
                                                                                                                 WORD3
                                                                                                                             000006
                                                                                                                                                      XQTS
XQT0
SR.ARE
            000114
                               002
                                                                                                                 WORD4
                                                  000024
                                                                                                                             000010
                               002 SR.1IP
002 SS.FID
                                                  000016
000002
                                                                     002-S.BFHD=-000020
004 S.FATT=-000016
SR.ARS
            000106
                                                                                                                 WORD5
                                                                                                                             000012
                                                                                                                                                      XSULOA=
                                                                                                                 WORD6
WORD7
SR.DAY
            000010
                                                                                                                                                      $CDTB - = · ******

$DSW = · ******

$$$ARG = · 000002
                                                                                                                            -000014
                               002-SS.FNB
002-SS.FVR
002-SS.LEN
002-SS.STT
                                                                     004 S.FDB = 000140
SR.DLT
            888814
                                                  000010
                                                                                                                             000016
SR.ECB
                                                  000006
                                                                     004
                                                                           S.FNAM= 000006
                                                                                                                 WORDS.
                                                                                                                             000020
                                                                          S.FNB = 000036
S.FNBW= 000017
                                                                                                                 WORD9 = -
WRDVAL = -
                                                                                                                                                      $$$T1 = 000067
.CLOSE= *****
            000046
                                                  000012
                                                                     ййа
                                                                                                                            000022
SR.ECL
             000050
                                                  000000
                                                                     004
                                                                                                                             000024
                                                                     006 S.FNTY= 000004
006 S.FTYP= 000002
006 S.HRL = 000240
006 S.NFEN= 000020
                               002-ST.ASZ
002-ST.BSZ
                                                                                                                                                      SR.FIB
             000012
                                                  000020
                                                                                                                 WRITE
                                                                                                                             006766R
SR.GRE
                                                                                                                 WRSTST.
                                                                                                                             004162R
                                                                                                                                                      .FSRCB= · *********
.GTDIR= · *******
SR.GRS
             000072
                               002.ST.BTC
002.ST.CSZ
                                                  000000
                                                                                                                 WRITERR -
                                                                                                                             004714R
SR.LEH
                                                  000030
                                                                                                                 WRT.DK=
                                                                                                                             000003
                                                                                                                                                      SR.LIH
SR.LIP
                               002-ST.HRL
002-ST.LEN
                                                                                                                 WRT.EF=-000002
WRT.LU=-000002
             999966
                                                  000010
                                                                     996
                                                                           TRI -
                                                                                        994999R
             000062
                                                                     006
                                                                           TBLSZ$=
                                                                                        000012
SR.MON
             имими в
                               002-ST.QRY
002-ST.QSZ
                                                  000002
                                                                     MAR THINDX:
                                                                                        004562R
                                                                                                                 XBATCH= 000013
SR. HDC
                                                                     006
                                                                          WH. HTP
                                                                                                                 XDBLOA = 000004
                                                                                                                                                      ...GBL= 000000
             000042
                                                                                                          012
                                                                                                          012 : XDBLOH = : 000004
012 : XDBC IN = : 000012
012 : XDMC IN = : 000006
012 : XFOSMR = : 000007
012 : XGTSRE = : 000014
012 : XHITSK = : 000011
                                                                                                                                                      ...PC1=-004334R
...PC2=-004530R
...PC3=-004334R
SR.HDS
             ававазь
                               002 ST.SCH
                                                  ййййлай
                                                                     MAR UNLAXT
                                                                                        ававав
 SR.HIH
             000030
                               002 ST.UHL
                                                                     006 WH.ROT
SR: HIP
             000022
                               002-ST.XLT
002-SU.DBU=
                                                  000014
                                                                     006 WH.SIZ
WH.SRC
                                                                                        ийий ти
SR.SDB
             000032
                                                  000004
                                                                                                                                                      ...TPC=-000020
SR.SRC
             000002
                               002.SU.DON=.000006
                                                                           WH. TYP
                                                                                        000001
 . ABS:
             роворо
                              ดดด
             007302
                              001
SRCOFF
             000122
                              002
SUSPEE
             000012
                              คคส
DHROFF
                              005
SITOFF
             999944
                              006
OSPLOF
                              007
             000014
BSTOFF
             000772
                              010
                             011
012
013
MANDOE
             000010
$$FSR1
            000000
                              014
ERRORS.
                            0
VIRTUAL-MEMORY-USED: 7316 WORDS- (-29 PAGES)
DYNAMIC-MEMORY: 8884 WORDS- (-31 PAGES)
ELAPSED-TIME: 00:01:06
HITSK-HITSK/-SP=[20.1]P/M.HITSK-
```

000005

G.

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HOTSK--- HOST-OUTPUT TASK-TABLE-OF-CONTENTS-

MACRO M1110 27-MAR-80 1:::27 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

HOTSK ---

OUTPUT TASK

MACRO M1110 27-MAR-80 13:27 P 10 CIA-RDP85-00514R000100030001-3

```
### TITLE: HOTSK: -- HOST: OUTPUT: TASK:

**SBTTL INTRODUCTION:

**IDENT: /01/**

**HOUST: OUTPUT: THE TASK: IS: TO: SEND: DATA: (IN-CORE: BUFFERS: AND: SPOOL: FILES)

**FROM: THE MASTER: COMPUTER: TO: THE: HOST: SYSTEM:

### THERE: ARE: NINE: TYPES: OF:

### DATA: THAT: IS: SENT: TO: THE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### BATCH: COMPUTER: TO: THE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### THERE: ARE: NINE: TYPES: OF:

### TITLE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### TITLE: HOST: SYSTEM:

### THERE: ARE: SHOLE: HOST: SYSTEM:

### THERE: ARE: SPOOL: FILE:

### THERE: SYSTEM: HOST: SPOOL: FILE:

### THE: HOST: HOST: SPOOL: FILE:

### THE: HOST: H
```

QIOW\$\$,RCVD\$\$,DECL\$\$,SPND\$\$,CLOSE\$ OFNB\$R,READ\$,WAIT\$,SETF\$S

FDBDF\$.FDRC\$A.FDBK\$A.FDOP\$A.FSRSZ\$

.MCALL -

.MCALL .

ALTP\$S

```
HOTSK--- HOST-OUTPUT TASK
                                                  MACRO M1110 27-MAR-80 13:27 PAGE 10-1
Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
INTRODUCTION-
       5566123456666667777777778882
                                                                            .WORD
                                                                                         "ID-
                                                                            .WORD
                                                                                        TYPE
PACK
                                                                             dani.
                                                                                         TXTLGT
                                                                .ENDM
                                                                           MSGSTR,STRING,?L1,?L2
.WORD: L2+L1
                                                                                        L2-L1
                                                               L1:
                                                                            .ASCII. /STRING/
                                                               L2:
                                                                            .EVEN
                                                                .ENDM-
                                                                  EQUATED · VARIABLES
                                                               AC.LUN-
AC.EF-
FIL.LU
                                                                                                                 ;AC : HANDLER : LUN : FOR : TRANSMISSION:
;AC : HANDLER : EVENT : FLAG :
;SPOOL : FILE : DISK : LUN :
;SPOOL : FILE : EVENT : FLAG :
                          000001
                          000001
                          000002
                                                                                        2
                          000002
                                                               FIL.EF
                                                                  DATA - BUFFERS - AND - DATA - STORAGE - AREAS -
        83
84
                                                                                                                  ;REGION-DEFINITION-BLOCK;SPOOL-FILE-BUFFER
                                                               EUF:
                                                                            .BLKB
                                                                                        N.BUFB
             000000
                                                                                                                  :MOUT$S:OUTPUT:PARAMETER:LIST
:SPOOL:FILE:I/O:STATUS:BLOCK
             004000
004004
                                                               FAR:
FILST:
                                                                            .BLKW
.BLKW
                                                                                        2.
        85
        86
                                                                                                                 #ACC I/O STATUS-BLOCK
#BUFFER-FOR-RCVD$S MACRO-
#BUFFER-FOR-STATUS FUNCTION-WORD-THAT-IS-
#SEND-TO THE-HOST-
        87
             004010
                                                               ACST:
RCVBUF:
                                                                           .BLKW.
                                                                                        2.
15.
        88
             004014
        89
             004052
                                                                STBUF:
                                                                            .BLKW
        90
91
92
93
94
                                                                  TABLE THAT GIVES THE RELATIONSHIP BETWEEN RECORD ID AND ITS TYPE AND PACKING
                                                                  MODE:
        95
96
97
98
                                                                VEC:
                                                                                                                 :MULTI-BLOCK.DHR.
:SINGLE.BLOCK.DHR
:BATCH.CUTOFF.
             004060
                                                                            FNT
                                                                                         DM, 15., 1.2048.
                                                                                        HD,4..1,2048.
CB,3..1,2048.
OF,1..0,2048.
                                                                           ENT
             004070
                                                               DHRI:
                                                               ECO:
FLU:
             004100
             004110
                                                                                                                  FOS:
STOP:QUERIES
                                                                                         SP,2.,2,32,
ST,2.,2,32,
        99 004120
                                                               SPO:
                                                                            ENT
                                                                                                                 :START QUERIES
       100
             004130
                                                                STQ:
                                                                                        AD.10..4.2046.
TR.12..3.2048.
EQ.19..1.32.
SM.17..2.32.
      101
102
             004140
                                                               DBA:
                                                                            ENT
                                                                                                                 RETRIEVED DOCUMENT:
:QUERY-ERROR:
:START-MASS-UPDATE
:NULL-ENTRY-TO-TELL-SOFTWARE OF TABLE-END-
             004150
                                                               FRR:
       103 004160
                                                                            FNT
       104
             004170
                                                                SMU:
       105
106
                                                                                         NL,0,0,0
            004200
                                                                HUL:
                                                                            ENT
                                                                ; FILE DESCRIPTOR BLOCK
       107
108
       100
109 004210
110 004350
111 004350
                                                               ÉDB:
                                                                            FDBDF$
                                                                            FDRC$A.
                                                                                        FD.RWM.
BUF,N.BUFB,,FIL.EF,FI<u>LST</u>
       111
112
113
                                                                                                                                                                          THE THE THE PROPERTY OF
             004350
                                                                            EDOP$A
                                                                                         FIL.LU
                                                                            FSRSZ$
                                                                                                                                                                                          004350
                                                      Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
MACROPHIVE FOR RESEASE 2005/07/2 DCM-RDP85-00514R000100030001-3
                      -OUTPUT TASK
INTRODUCTI
       116
117
                                                                                ERROR - MESSAGES -

       118 004350
119 004406
                                                                            RCVER:
                                                                                           MSGSTR
MSGSTR
       120 004446
121 004522
122 004560
123 004606
                                                                            STE
                                                                                           MSGSTR
MSGSTR
MSGSTR
MSGSTR
                                                                            DER:
FLE:
                                                                            FOE:
       123 004606
124 004636
125 004710
126 004740
127 004776
                                                                            FRE:
                                                                                           MSGSTR -
                                                                             CBYTES: MSGSTR-
        128
129
                                                                                    EXCHANGE · ID · PARSE · TABLE ·
        130
                                                                             EXCHID: .BYTE
                                                                                                                                          :DBACK · OR · RETRIEVED · DOC.
              005040
                                    006
                                                   004
                                                                                                           6.4
        131
        132
133
              005042
005044
                               0053221
                                                                                            .WORD
                                                                                                           SPOOLF.
                                                   005
                                                                                                                                          :SINGLE - BLOCK - DHR
                                    006
                                                                                                          SDHR
6,6
SPOOLF
7,0
SPOOLF
0,3
SPOOLF
       134 005044
134 005046
135 005050
136 005052
137 005054
                              005554°
006
005322°
                                                                                            .WORD
.BYTE
.WORD
.BYTE
                                                                                                                                          :MULTI-BLOCK DHR SPOOL FILE
                                                   006
                                                                                                                                                                                                  005322°
005322°
                                                   000
        138
139
              005056
005060
                                                                                            .WORD
.BYTE
                              000
005
005322*
                                                   003
                                                                                                                                          #BATCH CUT-OFF MSG
                                                                                            .WORD
.BYTE
        149
              005062
        141
               005064
                                                   004
                                                                                                                                          :QUERY-ERROR
                              005322
                                                                                                           SPOOLF
        142
              005066
                                                                                            .WORD
        143
              005070
                                    000
                                                                                            .BYTE
                                                                                                           а.а
        144
                                                   999
                                                                                                                                         :START-QUERIES-
       145
146
147
148
              005070
005072
005074
005076
005100
                              005452
000
                                                                                            .WORD
                                                                                                           NOF ILO
                                                   001
                                                                                                           0,1
NOFIL1
0,2
                                                                                                                                         :STOP QUERIES
                              005470°
                                                   002
                                                                                            .BYTE
                                                                                                                                         :START-MASS-UPDATE
       149 005102
150 005104
151 005106
                              A05506
                                                                                                           ÑÓF IL2
                                                                                            .WORD
                              000000
                                                                                                                                         :END OF TABLE
                                                                                            . WORD
                                                                                                           0
                              000000
                                                                                            .WORD
```

- (No.

```
HOTSK--- HOST-OUTPUT TASK-MAIN-ROUTINE-
                                                                                MACRO M1.18 27 MAR. 88 2005/07/28 CLA-RDP85-00514R000100030001-3
         153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
005110
171
005110
172
005126
174
005132
174
005132
174
005132
175
005150
176
                                                                                                                       .SBTTL - MAIN ROUTINE -
                                                                                                        MAIN-ROUTINE.
                                                                                                        THE PURPOSE OF THIS ROUTINE IS TO GET DATA AND TO SEND IT TO THE HOST SYSTEM. IF THERE IS NO DATA THE TASK WILL SUSPEND AND WAIT FOR ANOTHER TASK TO RESUME IT WHEN DATA IS AVAILABLE.
                                                                                                        INPUTS:
NONE
                                                                                                        OUTPUTS:
                                                                                                                       NONE -
                                                                                                   START:
MORE:
                                                                                                                       ALTP$S∙
CALL∙
BCS∙
SPND$S∙
BR
                                                                                                                                          .#150.
RCVFIL
MORE
                                                                                                                                                                                  :INCREASE PRIORITY TO 150
:SEE IF THERE IS ANYTHING IN THE ROVDAT QUEUE YES THERE WAS GO SEE IF THERE IS ANYMORE NOTHING IN EITHER THE RBRQ OR ROVDAT QUEUES WHEN THERE IS SOMETHING, ANOTHER TASK WILL ACITVATE HOTSK
                                        103766
                                       000757
                                                                                                                                          MORE
```

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CIA-RDP85-00514R000100030001-3
                                                    MACROPHOYED FOR Release 2005/07/29
HOTSK--
                      OUTPUT TASK
RCVFIL ROU
                                                                               .SBTTL - RCVFIL - ROUTINE
      180
       182
                                                                    RCVFIL - ROUTINE -
      183
184
185
                                                                     THIS ROUTINE SENDS EXCHANGES RECEIVED IN THE ROVO TO THE HOST SYSTEM.
       186
       187
       188 005152
189 005152
                                                                 ÉCVFIL:
                                                                                                                                   :INPUT-DATA-BUFFER:
:ERROR-ON-INPUT-?:
:NO. GO-PROCESS-THE-FILE:
:YES. NO.DATA-QUEUED ?:
:NO. REPORT-THE-ERROR:
:YES, TELL CALLER-THAT...
                                                                               RCVD$S
                                                                                            .#RCVBUF
       190 005170
191 005174
                          005767
                                       000000G
                                                                               TST
                                                                                            $DSW
                          003012
                                                                               BGT
       192
193
             005176
005204
                          026727
001002
                                       000000G · 000000G
                                                                              CMP
BHE
                                                                                            $DSW.#IE.ITS
                                                                                            11$
             005206
005210
                          000241
000443
                                                                                                                                   :YES, TELL CA
;WAS.NO.DATA.
       194
                                                                               CLC
                                                                                            99$
       195
                                                                               BR
      195 005210
196 005212
197 005212
198 005216
199 005220
200
                                                                 11$:
                                                                               CALL
                                                                                           DIRERR
                                                                                                                                   ;OUTPUT · ERROR ·
                          000241
000437
                                                                               CLC
                                                                              BR
                                                                                            99$
                                                                                                                                   :RETURN:
                                                                        PARSE COMMAND RECEIVED IN RCVQ
      202
203 005222
204 005226
205 005232
                                                                                                                                   :R1->PARSE TABLE:
:CHECK:COMMAND:BYTES
:BRANCH:IF NO:MATCH:
                          012701
022167
                                                                  1$:
                                                                               MOV
                                                                                            #EXCHID,R1
                                        176566
                                                                 4.5:
                                                                               CMP
                                                                                            (R1)+,RCVBUF+4
                          001007
                                                                               BHE
                                                                                            5$
      206 005234
207 005250
208 005252
                                                                              ALTP$S
                                                                               JMP
                                                                                            @(R1)+
                                                                                                                                   ; JUMP - TO - ROUTINE -
                                                                              TST
TST
                                                                                                                                   ;R1->NEXT · PARSE · TABLE · ENTRY ·
;END · OF · TABLE? ·
                          005721
005761
                                                                 生事:
                                                                                            (R1) +
      209
210
211
212
213
214
215
216
217
218
            005254
                                       000002
                                                                                                                                   ; BRANCH : IF NO
            005260
                          001362
                                                                              BHE
                                                                                           4$
                                                                        ILLEGAL · COMMAND · BYTES
            005262
005270
005276
                          116767
                                        176532
                                                     176510
                                                                              MOVB.
                                                                                           RCVBUF+4,PAR
                                                                                                                                  ;PAR·=·LOW BYTE·
;PAR+2·=·HI·BYTE·
;OUTPUT·ERROR·MSG·
                          116767
                                                     176504
                                                                                            RCVBUF+5.PAR+2
                                                                              MOUT$S ·
                                                                                           #CBYTES, *PAR
                          000261
000207
            005316
005320
                                                                              SEC -
RETURN
                                                                 99$:
```

```
HOTSK--- HOST-OUTPUT TASK-
                                                                                                        MACRO M1110 27-MAR-80 13:27 PAGE 13
Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
SPOOLF.
            220
221
                                                                                                                                                              .SBTTL: SPOOLF:
            222
223
                                                                                                                                                 SUBROUTINE TO TRANSMIT SPOOLED DATA TO HOST
            224
225
                                                                                                                                          OPEN. THE FILE AND COMPUTE. THE FILE LENGTH
            226
227
                         005322
005326
                                                                                                                                                                                                                                                                        ;R1->FILE·NAME·BLOCK
;OPEN·THE·SPOOL·FILE
;ERROR, GO EXIT·
                                                    012701
                                                                               0040221
                                                                                                                                    SPOOLF: MOV-
                                                                                                                                                                                         #RCVBUF+5,R1
                                                                                                                                                              CALL
                                                                                                                                                                                         OPEN
            228 · 005332
229 · 005334
                                                                                                                                                              BCS -
                                                                                                                                                                                        99$
#BUF,R5
                                                    193443
                                                    012705
                                                                               000000
                                                                                                                                                                                                                                                                        :R5->IMPUT BUFFER
             230 005340
                                                                                                                                                                                         LENGTH.
                                                                                                                                                                                                                                                                        COMPUTE THE LENGTH
            231
232
233
234
                                                                                                                                                          THE RECORD'S TYPE AND PACKING MODE R2 = LENGTH
                                                                                                                                          FIND.
                                                                                                                                                                                                                                                                       :GET:THE:FIRST:BLOCK
:IF:ERROR:GO:TRY:AGAIN:
:GET:THE:TYPE:AND:PACKING:MODE
:SEND:THE:STATUS:FUNCTION:WORDS:TQ:HOST:
:DBU:ACK?:
:BRANCH:IF:NO:
             235
                         005344
                                                                                                                                                              CALL
                                                                                                                                                                                         READ
            236 005350
237 005352
                                                    103435
                                                                                                                                                              BCS.
CALL
                                                                                                                                                                                         50$
DSPTCH-
                                                                                                                                                              CALL
CMP -
                                                                                                                                                                                         STATUS
#"AD.BUF
             238 005356
             239
                          005362
                                                                               042101
                                                                                                         172410
             240 005370
                                                    001005
                                                                                                                                                              BNE
                                                                                                                                                                                         1:5
                                                    016767
                                                                                                         172402
                                                                                                                                                                                         BUF, BUF+2
                                                                                                                                                              MOV
                                                                                                                                                                                                                                                                        ; REVERSE · TYPE · AND · PAD · WORDS ·
             242 995499
                                                    005067
                                                                               172374
                                                                                                                                                              CLR
                                                                                                                                                                                         BUF
                                                                                                                                                                                                                                                                       ;SEND-TO-THE-HOST-THE-FIRST-BLOCK-
;IF-ERROR, GO-TRY-AGAIN-
;ACCOUNT-FOR-BLOCK-JUST-SENT-
;IF-THATS-ALL-GO-CLOSE-FILE-
             243
                          005404
                                                                                                                                    1$:
                                                                                                                                                                                         SEND
                                                                                                                                                              CALL
             244
                         005410
005412
                                                    103415
005302
                                                                                                                                                              BCS
DEC
                                                                                                                                                                                         50$
R2
              245
            246 005414
247
                                                    001407
                                                                                                                                                                                         3$
            248
249
250 005416
251 005416
                                                                                                                                         SEND. THE REMAINING BLOCKS. IN THE SPOOL FILE.
                                                                                                                                    2:5:
            251 005416
252 005422
253 005424
                                                                                                                                                                                                                                                                        :GET-A-BLOCK-
:IF-ERROR-GO-EXIT-
:SEND-A-BLOCK-
                                                                                                                                                              CALL
                                                                                                                                                                                         READ
                                                    103407
                                                                                                                                                              BCS.
CALL.
                                                                                                                                                                                         99$
                                                                                                                                                                                         SEND
                                                                                                                                                                                                                                                                       #SENDERSON OF SENDERSON OF SEND
            254 005430
255 005432
                                                     103405
                                                                                                                                                              BCS-
SOB-
                                                                                                                                                                                         50$
R2,2$
                         005432
005434
                                                    077207
            256
257
                                                                                                                                    3$:
                                                                                                                                                              CALL
                                                                                                                                                                                          .DLFNB
                         005440
005442
                                                    000261
                                                                                                                                                              SEC
              258
                                                                                                                                   99$:
            259 005442
260 005444
                         005442
                                                    000207
                                                                                                                                                              RETURN
                                                                                                                                    SMS:
                                                                                                                                                              CL0SE$
                                                                                                                                                                                                                                                                        :AN ERROR WAS DETECTED, CLOSE THE
                                                    000724
             262 - 005450
                                                                                                                                                                                         SPOOLE.
                                                                                                                                                                                                                                                                        :SPOOL FILE AND TRY TO SEND IT AGAIN
```

```
MACRO MI 10 F 27 Release 2005/07/2 CIA-RDP85-00514R000100030001-3
нотѕк-
                       OUTPUT TASK
NOF ILE
      264
265
                                                                                  .SBTTL - NOFILE -
      265
267
268
269
270
271
                                                                          SUBROUTINE TO SEND TO THE HOST A PREDEFINED DATA BLOCK FOR THOSE EXCHANGES THAT HAVE NO SPOOL FILE.
                                                                           THE COMMAND BYTES INDICATE WHAT THE DATA SHOULD BE.
     271 005452-
272 005466
273 005466
274 005476
275 005504
276 005504
277 005506
278 005514
279
280
281 005524
282 005524
283 005534
286 005534
287
288 288
             005452
                           016767
                                         176452
                                                       172320
                                                                   NOFIL0:
                                                                                 MOV-
                                                                                               STQ,BUF
                                                                                                                                        :START-QUERIES
                                                                                              #1,BUF+2
NOFILE
SPQ,BUF+
#2,BUF+2
NOFILE
SMU,BUF
                           012767
000414
                                                                                 MOV.
BR
                                        000001
                                                      172314
                          016767
012767
000405
016767
                                         176424
                                                       172302
                                                                   NOFIL1:
                                                                                 MOV
                                                                                                                                        :STOP - QUERIES -
                                        000002
                                                       172276
                                                                                 MOV.
                                                                                 BR
                                         176456
                                                                   NOFIL2:
                                                                                                                                        :START-MASS-UPDATE
                           005067
                                         172262
                                                                                 CLR
                                                                                               BUF+2
                                                                                               #1.R2
#BUF.R5
DSPTCH
                                                                                                                                       :R2.=:BLOCK:LENGTH:OF:EXCHANGE
:R5->OUTPUT:BUFFER:
:GET:THE:TYPE:AND:PACKING:MODE
:SEND:THE:STATUS:FUNCTION:WORDS
                                                                   NOFILE: MOV-
                           012702
                                        000001
                           012705
                                        000000
                                                                                 CALL
CALL
                           103767
                                                                                 BCS.
                                                                                               HOFILE
                                                                                                                                        ; IF ERROR, TRY AGAIN
                                                                          SEND - DATA - BLOCK
      289
290 005542
291 005546
292 005550
                                                                                 CALL
BCS
SEC
                                                                                               SEND
                           103764
000261
                                                                                               NOFILE:
      293 005552
                           000207
                                                                                 RETURN
```

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HOTSK--- HOST-BUTPUT TASK-
                                                                       MACRO M1110 27-MAR-80 13:27 PAGE 15
Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
        295
296
297
298
                                                                                                   SUBROUTINE TO TRANSMIT TO THE HOST A SINGLE-BLOCK DHR RECEIVED FROM DMCIN VIA DOUBLE IN-CORE BUFFERS. RCVBUF CONTAINS INFORMATION IDENTIFYING THE BUFFER CONTAINING THE DHR:
        299
300
       300
301 005554
302-005560
303 005564
304 005570
305 005574
306
307
308
308
                                                                                                                             #1.R2
RCVBUF+8..R5
DSPTCH
STATUS
                                   012702 000001
016705 176240
                                                                                          SDHR:
                                                                                                           MOV.
                                                                                                                                                                  ;R2:=:BLOCK:LENGTH OF:EXCHANGE:
;R5->INPUT:BUFFER:(SAME:AS:OUTPUT:BUFF.)
                                                                                                            CALL.
                                                                                                            CALL -
                                    103767
                                                                                                            BCS.
                                                                                                   SEND-BLOCK
       308
309 005576
310 005602
311 005604
312 005610
313 005616
314 005636
315 005636
316 005640
                                                                                                            CALL.
                                    103764
                                                                                                            BCS -
MOV -
BIC -
                                                                                                                              SDHR
                                                                                                                             SDHR
RCYBUF+6.R1 :R1-> DHR-CONTROL-TABLE-
RCYBUF+13.,DH.CTL(R1) :MARK-BUFFER-EMPTY-
DH.FLG(R1) :SET-EVENT-FLAG-TO SIGNAL-DMCIN-
                                   016701
046761
                                                     176212
176212
                                                                      000000
                                                                                                           SETF$S.
DECL$S.
SEC.
RETURN.
                                   000261
000207
```

To the

THE REPORT OF THE PARTY AND THE

```
HOTSK--
                 OUTPUT TASK
                                        MACAPproved F67 Rélease 2005/07/2 CIA-RDP85-00514R000100030001-3
DSPTCH ROU
                                                             .SBTTL - DSPTCH-ROUTINE
     318
319
320
321
322
323
                                                     DSPTCH-ROUTINE
                                                      THIS ROUTINE SEARCHES THE TVECT TABLE GIVEN THE RECORD ID.
     324
325
326
327
                                                      ID-IS-FOUND-THE-RECORD-TYPE-AND-PACKING-MODE-ARE RETURNED.
                                                     INPUTS:
R5->BUFFER:ADDRESS
    OUTPUTS:
                                                             R3-> VEC+
R4 = PACKING MODE
                                                   DSPTCH:
                                                                                                      ;R3->START OF: "VEC" TABLE:
                    012703 004060'
                                                             MOV
                                                                        #VEC,R3
                                                   2$:
                                                             CMP
                                                                        (R3),(R5)
                                                                                                      ;TABLE-MATCH-RECORD-ID-?-
                                                                                                      ;YES.
;NOW POINT R3 TO THE NEXT ONE ;
;IS THIS THE END OF THE TABLE ?
;NOW CONTINUE SEARCHING ;
;YES, OUTPUT ERROR MESSAGE
                    001421
                                                             BEQ
                                                                        1$
                    062703
005763
001371
                                                                       #VECLN$,R3
2(R3)
                               000010
                                                             ADD:
                              000002
                                                             BHE MOV
                                                                        2$
                                                                        (R5),PAR
                    011567
                               176110
                                                             MOUT$S
                                                                       #IRT, #PAR
                    000261
                                                             SEC.
                                                                                                      ; INDICATE · AND · ERROR ·
                    000403
                                                                       99$
                                                   1$:
                                                             MOV.
                                                                                                      :R4=PACKING · MODE
                    016304
                              000004
                                                                       4(R3),R4
                    000241
                                                             CLC.
                                                                                                      ; INDICATE · THAT · THE · RECORD · WAS · FOUND
                                                   99$:
                    000207
                                                             RETURN
```

18.18

```
HOTSK--- HOST-OUTPUT TASK
                                           MACRO M1110 27-MAR-80 13:27 PAGE 17 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
STATUS ROUTINE
                                                                  .SBTTL - STATUS - ROUTINE
     355
356
357
                                                         STATUS ROUTINE
     358
                                                         SEND-A-STATUS- FUNCTION-WORD TO-THE-HOST-SYSTEM
     360
361
                                                         INPUTS:
                                                                 s:
R2 =-BLOCK-LENGTH-OF-EXCHANGE-
R3->"VEC" TABLE-ENTRY-WHICH-POINTS-TO-THE-RECORD-TYPE
     362
363
                                                         OUTPUTS:
                                                                 .s.
R3 =-BYTE-LENGTH-OF-BLOCK-TO-BE-TRANSMITTED-
STATUS-FUNCTION-WORD-IS-SEND-TO-THE-HOST-SYSTEM-
     366
367
     368
     369
     370
371
                                                       ŚTATUS∶
     372-005724
373
                                                                 SAVE -
                                                                            R0.R1
     374
                                                         PACK THE STATUS WORD WITH THE RECORD TYPE AND LENGTH
     376
          005730
                     010201
                                                                 MOV:
                                                                                                             :R1=FILE · LENGTH
          005732
                     072127
                                                                 ASH.
                                                                             #4,R1
                                                                                                             #ADJUST-FOR-PUTTING-IN-THE-TYPE
#R0=RECORD TYPE-
#ADJUST-BOTH-TYPE-AND-LENGTH-
     378
          005736
                     016300
                                000002
                                                                 MOV-
ASHC
                                                                            2(R3),R0
#+2,R0
           005742
                                                                            R0.STBUF+2
                                 176100
                                                                 MOV.
     388
          995746
                     010067
          005752
                     010167
                                 176076
     382-005756
                     016303
                                000006
                                                                 MOV-
                                                                            6(R3),R3
                                                                                                             :R3 = BYTE LENGTH-OF BLOCK-TO-
: BE-TRANSMITTED-
:CLEAR-OPTIONAL-DATA
     384 005762 005067
385
                                 176070
                                                                 CLR.
                                                                            STBUF+4
     386
387
                                                         SEND. THE STATUS. FUNCTION. WORD.
     388 005766
                                                                  QIOW$S
                                                                             #IO:MOD, #AC:LUN, #AC:EF, . #ACST, . < #STBUF, #6; >.DIRERR
                      105767
     389
          006046
                                                                                                             : IS · THERE · AND · I/O · ERROR
:NO ·
                                 175736
                                                                  TSTB.
                                                                            ACST
      390
          006052
                      003021
                                                                             1$
ACST,RØ
                                 175730
     39 i
          006054
                                                                  MOVB
                      116700
     392
393
          006060
006064
                                                                                                             :DEVICE:NOT:REAADY:ERROR:?
:BRANCH:IF YES:
                      020027
                                 000000G
                                                                  CMP
                                                                             R0.#IE.DHR
                      001412
                                                                  BEQ.
                                                                             2$
                                                                             RØ.PAR
     394 006066
395 006072
                      010067
                                 175706
                                                                                                             :OUTPUT·ERROR·MESSAGE·
:INDICATE·ERROR·TO·CALLER
                                                                  MOUT$S.
                                                                             #STE, #PAR
     396
397
          006112
006114
                      000261
                                                       2$:
                     000401
     398 006116
399 006116
400 006120
                                                       1$:
                                                                                                             :INDICATE SUCCESSFULL XMISSION
                      000241
                                                                 CLC
                                                       99$:
          006120
                                                                            R0.R1
                     000207
     402-006124
                                                                  RETURN
```

TO A TO MENT OF A COLUMN

```
HOTSK---
                        - OUTPUT TASK
                                                         MARDPROVED FOR RELEASE 2005/07/2 CIA-RDP85-00514R000100030001-3
LENGTH ROUTINE
       404
405
406
407
                                                                                        .SBTTL LENGTH ROUTINE
                                                                            THIS-ROUTINE-COMPUTES-THE-LENGTH-OF-A-FILE-IN-1024 WORD-BLOCKS, 7 W
       408
409
                                                                            INPUTS:
       410
                                                                                      RØ->FDB
       412
413
414
415
                                                                            OUTPUTS:
                                                                                      R2=LENGTH.OF THE.FILE.IN.1024 WORD.BLOCKS
       416
417 006126
418 006126
419 006130
                                                                        LENGTH:
                                                                                                     R3
F.EFBK(R0),R2
F.EFBK+2(R0),R3
#1,R3
                                                                                       SAVE
                                                                                                                                                #GET-HIGH-ORDER-FCS-BLOCK-COUNT-
#GET-LOW-ORDER-FCS-BLOCK-COUNT
#MAKE-IT-ZERO-RELATIVE-
                             016002
                                                                                       MOV.
      419 006130
420 006134
421 006148
422 006146
423 006156
424 006152
425 006154
426 006156
                                                                                       MOV-
SUB-
SBC-
                            016003
162703
005602
                                           000012
000001
                                                                                                     R2
                                                                                                                                                CONVERT TO HSTS BLOCK COUNT
THERE CANNOT BE ZERO BLOCKS
THERE MUST BE EVEN MULTIPLES
NOT EVEN, REPORT ERROR
EVERYTHING IS OK RETURN
                            071227
001404
                                           000004
                                                                                                      #N.BFAC,R2
                                                                                      BEQ
                                                                                                     1$
                            005703
001002
                                                                                      TST.
                                                                                                     R3
                                                                                                     1$
       427 006160
428 006162
429 006164
430 006164
                            000241
000410
                                                                                      CLC
BR
                                                                                                     99$
                                                                        1$:
                                                                                      MOUT$S.
                                                                                                                                                ;REPORT:THE:ERROR:
;GIVE:AN:ERROR:RETURN:
                                                                                                     #FLE
       431 006202
432 006204
433 006204
                            000261
                                                                                      SEC:
                                                                        99$:
                                                                                      RESTOR - RETURN -
                                                                                                     R3
              006206
                            000207
```

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```
HOTSK--- HOST-DUTPUT TASK-
OPEN-ROUTINE
                                              MACRO M11118 F27 M98-88 2005/07/28 CtA-RDP85-00514R000100030001-3
     436
437
438
                                                                      .SBTTL . OPEN ROUTINE
     439
                                                             OPEN-ROUTINE-
     441
442
443
444
                                                             THE PURPOSE OF THIS ROUTINE IS TO OPEN A SPOOL FILE.
                                                                     R1->FILE NAME BLOCK THAT IS TO BE OPEN.
     445
446
447
448
                                                             OUTPUTS:
                                                                      IF AN ERROR IS DETECTED THE "C" BIT IS SET, ELSE IT IS CLEARED
     449
450
451
452-006210
                                                          ;
CPEN:
     453 006210
454 006214
                                                                                                        :RØ->FDB
:FILL.OUT.THE.FDB.FILE.ID.SECTION:
:OPEN.THE.FILE.
:IS.THERE.AN.ERROR ?
                       012700
                                  0042101
                                                                     MOV-
                                                                                 #FDB.RØ
                                                                     CALL
OFNB$R
                                                                                 BLDEFL:
     455 006220
456 006232
457 006236
458 006240
                       105760
                                  000052
                                                                     TSTB BGT
                                                                                 F.ERR(R0)
                       003016
                                                                                 1$
                                                                                                        :NO
                                                                     MOVB
MOV
MOUT$S
SEC
                                                                                 F.ERR(R0),R1
R1,PAR
                       116001
010167
                                   000052
                                                                                                        :YES, OUTPUT THE ERROR MESSAGE
     459 006244
460 006250
                                   175530
                                                                                 #FOE. #PAR
     461 006270
461 006270
462 006272
463 006274
464 006274
465 006276
466 006276
                       000261
                                                                                                        : INDICATE - AN - ERROR
                                                                                 99$
                       000401
                                                                     BR
                                                          1$:
                       000241
                                                                     CLC.
                                                                                                        : INDICATE · EVERYTHING · OK ·
                                                          99$:
                       000207
                                                                     RETURN-
```

```
MACRO M1110 27-MAR-80 13:27 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                  OUTPUT TASK
SEND ROUT
     468
                                                                  .SBTTL SEND ROUTINE
     469
470
                                                       ;·
; +
     471
472
473
474
                                                         SEND-ROUTINE.
                                                         THE PURPOSE OF THIS ROUTINE IS TO SEND A BLOCK OF DATA TO THE HOST SYSTEM.
     475
476
                                                         INPUTS:
                                                                 R5->BUFFER: TO: BE: OUTPUT:
R4 =: PACKING MODE:
R3 =: BYTE: LENGTH: OF: BLOCK: TO: BE: TRANSMITTED: TO: HOST:
     477
478
     479
480
                                                         OUTPUTS: IF THERE IS AN ERROR THE "C" BIT IS SET, ELSE IT IS CLEARED.
     481
     482
     483
484
     485
486 006300
487 006300
488 006302
                                                                                                                                                     ः ।
अस्य स्टब्स्ट
                                                       SEND:
                                                                             SAVE.
QIOW$S.
     489 006356
490 006362
                      105767
                                 175426
                                                                  TSTB -
                      003021
                                                                             ACST.R5
R5.#IE.DHR
                                                                                                              ;YES, OUTPUT ERROR MSG.
;DEVICE NOT READY ERROR?
;BRANCH IF YES
     491 006364
492-006370
                     116705
020527
                                 175420
                                                                  MOVB
CMP
                                000000G
     493 006374
494 006376
                     001412
010567
                                                                  BEQ -
MOV -
                                                                             2$
R5.PAR
     495 006402
496 006422
497 006424
                                                                 MOUT$S
SEC
BR
                                                                             #TE,#PAR
                      000261
                                                                                                              : INDICATE - AN - ERROR -
                                                       2$:
                                                                             99$
                     000401
     498
499
          006426
006426
                     000241
                                                                  OLO:
     500 006430
                                                       99$:
                                                                  RESTOR -
     501 006430
                                                                            R5
     502-006432-
                     000207
```

```
HOTSK.-- HOST-OUTPUT TASK.
READ-ROUTINE.
                                                    MACRO M1: 10 27-MAR-80 13:2707/28: CfA-RDP85-00514R000100030001-3
      504
                                                                                .SBTTL READ ROUTINE
      505
506
507
508
                                                                     READ ROUTINE
      509
510
511
512
513
514
                                                                     THE PURPOSE OF THIS ROUTINE IS TO READ ONE 1824 WORD BLOCK FROM A SPOOL FILE THIS ROUTINE ASSUMES THAT THE FILE IS ALREADY OPENED.
                                                                     INPUTS:
RØ->FDB
      515
516
517
518
                                                                                IF THERE IS AN ERROR THE "C" BIT IS SET, ELSE IT IS CLEARED.
     518
519
520 006434
521 006436
522 006456
523 006456
524 006462
526 006470
527 006474
528 006528
                                                                  ŔEAD:
                                                                                SAVE
                                                                                             RØ
                                                                                            DIRERR.
FILST.
FILST.R0
                                                                               READ$
WAIT$
TSTB
                                                                                                                                     *READ A BLOCK * WAIT FOR IT TO COMPLETE * WAS THERE AN ERROR ? *
                          105767
                                       175316
                          003016
116700
                                                                                                                                     :NO
                                        175310
                                                                                MOVB -
                                                                                                                                     ;YES, OUTPUT ERROR MESSAGE
                                                                               MOV
MOUT$S
                                                                                            RØ.PAR
#FRE.#PAR
                          010067
                                       175300
      529 006520
530 006522
531 006524
                          000261
000401
                                                                                SEC.
                                                                                                                                     : INDICATE · THAT · THERE IS · AN · ERROR ·
                                                                                             99$
                                                                               BR
                                                                  1$:
      532 006524
532 006526
533 006526
534 006526
535 006530
                          000241
                                                                               CLC.
                                                                  99$:
                                                                               RESTOR.
                                                                                            RØ
                         000207
```

THE RESERVE OF THE PARTY OF THE

```
HOTSK--- HOTSK-OUTPUT TASK-
                                              Approved For Release 2005/07/2 CfA-RDP85-00514R000100030001-3
     537
538
539
548
541
542
543
544
545
546
547
5548
559
551
552
553
006532
554
006532
556
006544
557
006546
558
                                                                      .SBTTL - DIRERR - ROUTINE
                                                             DIRERR-ROUTINE.
                                                             THE PURPOSE OF THIS ROUTINE IS TO REPORT DIRECTIVE STATUS ERRORS TO THE SYSTEM LOG:
                                                             INPUTS:
                                                             OUTPUTS: DIRECTIVE STATUS ERROR MESSAGE TO THE SYSTEM LOG-
                                                           DIRERR:
                                                                                 $DSW,PAR
(SP),PAR+2
#DIRER,#PAR
                                                                      MOV.
                        016767
                                   000000G-175240
                                                                                                                     :GET-THE-DSW-ERROR-
:GET-ADDR-OF-CALLING ROUTINE-
:OUTPUT-THE-MESSAGE-
                       011667
                                                                      MOV.
MOUT$S
                       000207
                                                                      RETURN.
                        005110
                                                                      .END
                                                                                  START.
```

HOST-OUTPUT TASK	MACRO Mille _27±MAR-80 13:27 _ PA3	F. 22=1	
-MBOL · TABLE ·	Approved For Release 2005/07/28	CÍÁ-RDP85-00514R000100030001-3	
ACST: 004010R: B.HRLW AC.EF:=:000001 B.NMBR		011 F.RTYP= 000000 SMU 011 F.SEQN= 000100 SPOOLF	004170R
AC.LUN= 000001 B.NQRY		011 F.SPDV= 000072 SPQ	66 4 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
BCO 004100R B.QLSZ		011 F.SPUN= 000074 SR.ARE	
BITVAL=.000000 B.QMAP		011 F.STBK= 000036 SR.ARS	
BIT0 = 000001 B.QSPL			000010 002 1
BIT1 = 000002 B.QTTM			000014 002÷)
BIT10 = 002000 B.QUQP BIT11 = 004000 B.SFDB		011 F.VBN = 000064 SR.ECB	
BIT12 = 010000 B.SIZE		011 F.VBSZ=-000060 SR.ECH- 011 IE.DNR=-******* GX- SR.ECL-	
BIT13 = 020000 B.SNDP		011 IE.ITS= ******** GX	000050 002 / 000012 002
BIT14 = 040000 B.SSQ		011 IO.MOD= ******* GX	
BIT15 = 100000 B.SSQF	000050 010 FN.SF0 000030	011 IO.WLB= ********* GX SR.GRS	
BIT2 - 000004 B.STAT		, 011 IRT- 004406R- SR.LEN-	000122 002 1.
BIT3 = 000010 B.STTE		011 LENGTH 006126R SR.LIN	000066 002
BIT4 = 000020 B:UDOC BIT5 = 000040 CBYTES		M· = 000062· SR:LIP·	000062 002 -
	=-000070 FRE- 004710R-	· MORE· ØØ511ØR· SR.MON- MSGOUT=-≫⇔≫∞∞ GX· SR.NDC-	
	= · 000067 F.ACTL = · 000076	N· = 000002 SR.NDS	000042 002 000036 002
	= 000066 F:ALOC= 000040	NOFILE 005520R SR.NIN	
	=-0000065 F.BBFS=-000062-	NOFIL0 005452R SR.NIP	
)=-000064 F.BDB000070	HOFIL1 005470R· SR.SDB·	
	000063 F.BGBC000057	NOFIL2 005506R SR.SRC	000002 002 . 💀 💡
BS.DBU=-000004 DBA- BS.INA=-000000 DBSLEN	004140R· F.BKDN=-000026 I≕-000116 F.BKDS=-000020	NUL 004200R SR.SUN	
BS:OPN= 000000 DER	F.BKDS=-000020 004522R· F.BKEF=-000050	N.BFAC=-000004 SR.TWS- N.BHGH=-000006 SR.WSL-	
BS.SRC=-000003 DHRI-	004070R· F.BKP1=-000051	N:BTCH= 000004 SR:WSL	000052 002 002 000004
BUF 000000R DH.BF0		N.BUFB= 004000 SR.1IN	
BYTE0 = 000000 DH.BF1		N.BUFW=-002000 SR.1IP-	000016 002
BYTE! = 000001 DH.CTL		N.DID-=-000024 SS.FID-	000002 004
BYTE2 = 000002 DH.DMC		N.DVNM=-000032- SS.FNB-	
BYTE3 = 000003 DH.FLG BYTE4 = 000004 DIRER		N.FID.=-000000 SS.FVR- N.FNAM=-000006 SS.LEN-	
BYTE5 = 000005 DIRERR		N.FNAM=-000006 SS.LEN- N.FOS-=-000764 SS.STT-	
BYTE6 = 000006 DN.DCK		N.FTYP= 000014 START	005110R·
BYTE7 = 000007 DH.HTP			005724R
BYTE8 - = - 0000010 DN.NXT		N.NEXT= 000022 STBUF	004052R
BYTE9 = 000011 DH.ROT		N.PKSZ=-000020 STE-	004446R
BYTVAL=-000012- DN.SIZ B.BSTA-000054 010 DSPTCH		N.PKTS=-000043 STQ-	004130R
B.BSTA 000054 010 DSPTCH B.CNTX 000046 010 ERR	005642R+		000020 006 000024 006
B.CQUQ. 000060 010 EXCHID		N.SUNT=-000020 ST.BTC-	000024 005 000000 006
B.FEMA 000132 010 FDB	004210R· F.FTYP= 000116		000030 006
B.FEMB 000142 010 FD.FID	000000 003 F.FVER= 000120	OPEN 006210R ST.HRL	
B.FEMC 000152 010 FD.FNB		PAR 004000R ST.LEN	000044 006
B.FFSA 000202 010 FD.FVR		QE.RO1=-000144 ST.QRY-	
B.FFSB 000212 010 FD.LEN B.FFSC 000222 010 FD.RWM		0.FDSC 000004 007 ST.QSZ	
B.FMHR 000172 010 FILST	1= xxxxxxxx GX	0.NQBK-000000 007 ST.SCH- Q.NUHL-000002- 007 ST.UHL-	
B.FQLS 000162 010 FIL.EF		0.SIZE 000014 007 ST.XLT	000004 006 000014 006
B.FSAZ 000100 010 FIL.LU		RCVBUF 004014R SU.DBU=	.00004
B.FSBZ 000102 010 FLE	004560R· F.OVBS= 000030	RCVER: 004350R: SU.DON=	000006
B.FSCZ 000104 010 FLU	004110R· F.RACC=-000016	RCVFIL 005152R SU.IDL=	
B.HBLK- 000120 010 FN.DBR		READ· 006434R· SULLQD=	000001
B.HDOC 000114 010 FN.DBS B.HRLP 000126 010 FN.DHR		RET 004150M	AND SOLD AND AND AND AND AND AND AND AND AND AN
B.HRLP 000126	000040 011 F.RCTL=-000017 000012- 011 F.RSIZ=-000002-	SDHR 005554R "SU.SRR=	-000005
DATINEN. DODIES. BIR LUIELM	Approved For Release 2005/07/2	CIA-RDP85-00514R000100030001-3	000003
	pp. 0. 05. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	•		47

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MARAPPROVED FOR Release 2005/97/2 CLA-RDP85-00514R000100030001-3
                 -OUTPUT TASK
SYMBOL TAB
S.BFHD= 000020
                                                                                                                                                                                 $$$ARG=.000002
$$$T1 =.000067
.CLOSE=.********* G.
.DLFNB=.******** GX.
                                                                                         WORD3 = 000006
                                                                                                                                     XDMC IN= . 000006
XFOSMR = . 000007
                                             VEC:
                                                           004060R
S.FATT= 000020
S.FATT= 000016
S.FDB = 000140
S.FNAM= 000006
S.FNB = 000036
S.FNBW= 000017
                                             VECLN$:
                                                           000010
                                                                                         WORD4
                                                                                                       000010
                                            WH.HTP
WH.HXT
                                                                                 012
012
                                                                                        WORD5
WORD6
                                                                                                   = · 000012
= · 000014
                                                                                                                                     XGTSRE = 000014
XHITSK = 000011
                                                           000004
                                                            000006
                                            WM.ROT
WM.SIZ
WM.SRC
WM.TYP
                                                                                                                                     XHLMER = . 000002
XHOTSK = . 000010
                                                                                                                                                                                  .FSRCB= ******* G.
.OPFNB= ******* G.
                                                           000002
                                                                                 012-WORD7
                                                                                                    = 0000016
                                                           000010
                                                                                  012-WORD8
                                                                                                       000020
S.FNTY= 000004
S.FTYP= 000002
S.HRL = 000240
                                                                                                                                     XMSCHE = 000000
XQTS = 000003
XQT0 = 000001
                                                           000000
                                                                                 012-WORD9 = 0000022
                                                                                                                                                                                  .READ = ******* G
.WAIT = ******* G
                                                            000001
                                                                                  012.WRDVAL=.000024
                                            WORD0 = 000000
WORD1 = 000002
WORD2 = 000004
                                                                                         XBATCH= 0000013
XDBLOA= 000004
                                                                                                                                                                                  ...PC1=-004210R-
...PC2=-004350R-
...TPC=-000020
                                                                                                                                     XQT0 = 000001
XSULOA= 000005
 S.NFEN= 000240
TE 004636
               004636R
                                                                                         XDBPR0= 000012
                                                                                                                                     $DSW = HONOROR GX
 . ABS:
               000000
                                   000
                                   001
002
003
               006566
000122
 SRCOFF
 FDSCOF
SUSOFF
               000010
               000012
                                    004
 DHROFF
STTOFF
               000012
                                    005
006
               000044
 QSPLOF
BSTOFF
FNOFFS
                                   007
010
011
012
               000014
000772
               000044
 WHODOF
               000010
 DNODOF
$$FSR1
              000010
000000
                                   013
                                   014
 ERRORS DETECTED:
                                 0
VIRTUAL-MEMORY-USED: 6400 WORDS- (-25 PAGES)
DYNAMIC-MEMORY: 7028 WORDS- (-27 PAGES)
ELAPSED-TIME: 00:00:59
HOTSK-HOTSK/+SP=C20.1P,M.HOTSK-
```

The state of the s

ACC: HANDLE MACRO: M1110 27-MAR-80 13:32.
TABLE: OF: CONTENTS: Approved For Release 2005/07/29 CIA-RDP85-00514R000100030001-3

7-: 3 INTRO: AND: MACROS: 8- 26 FOLIATED: SYMBOLS:

7-- 3 INTRO-AND-MACROS8- 26 EQUATED.SYMBOLS9- 106 LOCAL-DATA10- 168 ACINI-- ENTRY POINT11- 265 RSTRT-- SUBROUTINE12- 349 XMIT -- SUBROUTINE13- 457 RECEVE-- SUBROUTINE14- 567 FUNCT-- SUBROUTINE15- 703 XMITINT.(\$ACOUI)-- ENTRY-POINT16- 794 RCVINT.(\$ACOUI)-- ENTRY-POINT17- 1005 DMA--- SUBROUTINE18- 1050 POWER-FAIL-- ENTRY-POINT19- 1076 TIME OUT-- ENTRY-POINT20- 1120 CANCEL-- ENTRY-POINT21- 1161 CKERR.-- ROUTINE22- 1208 SETAPR.-- ROUTINE23- 1246 IODONE-- ROUTINE24- 1288 SETERR.-- ROUTINE-

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ACC HANDL
                                          MACRO-M1110
                                                                         27-MAR-88 13:32. PAGE 8
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                                                                                                                                .SBTTL · EQUATED · SYMBOLS
             27
28
                                                                                                               EQUATED SYMBOLS
             29
30
                                                                                                                                .PSECT: ACCREG.ABS::OFFSETS:FOR:THE.ACC:HARDWARE:REGISTERS
.BLKW: 1 :RECEIVE:CHANNEL STATUS:REGISTER
                     000000
                                                                                                          R.CSR:
R.DB:
              31
32
                     000000
                                                                                                                                                                          RECEIVE CHANNEL STATUS REGISTER:
RECEIVE DATA BUFFER:
RECEIVE MEMORY ADDRESS:
RECEIVE WORD COUNT:
TRANSMIT CHANNEL STATUS REGISTER:
TRANSMIT DATA BUFFER:
TRANSMIT WORD COUNT:
TRANSMIT WORD COUNT:
RECEIVE EXTERNAL FUNCTION WORD 0 (BI')
RECEIVE EXTERNAL FUNCTION WORD 1 (C)
RECEIVE EXTERNAL FUNCTION WORD 2 (C)
TRANSMIT EXTERNAL STATUS WORD 0 (BI')
TRANSMIT TEXTERNAL STATUS WORD 1 (F)
TRANSMIT STATUS WORD 1 (C)
TRANSMIT EXTERNAL STATUS WORD 1 (F)
                     999992
                                                                                                                                 .BLKW-
              33
                     000004
              34
                     ВВВВВВ
                                                                                                           R.WC:
                                                                                                                                 . BLKM-
              35
36
                      000010
                                                                                                            T.ČSR:
                      000012
                                                                                                            T.DB:
                                                                                                                                 .BLKW
                      000014
              38
                                                                                                                                 .BLKW-
                     000016
                                                                                                           T.WC:
              39
                      000020
                                                                                                            R.EF2:
                                                                                                                                                                                                                                                                                       0-15)
              40
                     000022
                                                                                                           R:FF1:
                                                                                                                                 . BLKhl-
                                                                                                                                                                                                                                                                                     16-31)
32-35)
              41
42
                                                                                                                                                                          **TRANSMIT EXTERNAL STATUS WORD 0 (BITS : TRANSMIT EXTERNAL STATUS WORD 1 ( : TRANSMIT EXTERNAL STATUS WORD 1 ( : TRANSMIT EXTERNAL STATUS WORD 2 ( : MODE CONTROL REGISTER : MAINTENANCE CONTROL :
                                                                                                                                                                                                                                                                                  _ 0-15)
16-31)
32-35)
                     000026
                                                                                                           T.EF2:
                                                                                                                                 .BLKW-
             43
44
45
46
47
48
                      000030
                                                                                                            T.EF1:
                                                                                                                                .BLKW.
                     000032
                                                                                                            T.EF0:
                     000034
000036
                                                                                                                                .BLKW.
                                                                                                            MCR:
                                                                                                            MC:
                     000000
                                                                                                                                .PSECT
            49
51
52
53
55
55
55
55
59
                                                                                                              RECEIVE CSR AND TRANSMIT CSR REGISTER BIT DEFINITIONS
                                                                                                                                                                        RECV-AND-XMIT-DMA-GO-BIT-
RCV-AND-XMIT-DMA-GO-BIT-
RCV-AND-XMIT-BYTE-ADDRESSING-MODE-
RCV-UNIVAC-BUS-BACK-
RCV-UNIVAC-BUS-BACK-
XMIT-RESET-ACC HARDWARE-INTERFACE-
RCV-AND-XMIT-EXTENDED-MEMORY-ADDRESS-BITS-
RCV-AND-XMIT-EXTENDED-MEMORY-ADDRESS-BITS-
RCV-AND-XMIT-EXTENDED-MEMORY-ADDRESS-BITS-
RCV-AND-XMIT-EMABLE-INTERRUPT-
RCV-AND-XMIT-DMA-DONE-
RCV-READ-BUFFER FULL-
XMIT-TRANSMIT-BUFFER-EMPTY-
RCV-AND-XMIT-DMA-WORD-COUNT-EQUAL-TO-ZERO-
RCV-AND-XMIT-BUFFER-DECAUSE-OF-INPUT-FUNC-
RCV-AND-XMIT-UNIVAC-RESET-THE-CHANNEL-
RCV-AND-XMIT-NON-EXISTANT-NEMORY-
RCV-AND-XMIT-NON-EXISTANT-NEMORY-
RCV-AND-XMIT-COMPOSITE-OF-BITS-13, AND-14
                                           000001
                                                                                                           DMAGO
                                                                                                                                                     BIT0
BIT1
                                           000002
                                                                                                           BYTE .
                                                                                                                                                    BIT2
BIT3
BIT2
                                                                                                          BBPDP
                                           000004
                                           000010
                                                                                                           BBUNVC
                                           0000004
                                                                                                          RESET.
                                          000020
000040
                                                                                                          EA16
EA17
                                                                                                                                                     BIT5
                                          000100
                                          000200
                                                                                                          DMADON -
                                                                                                                                                     BIT7
             60
61
62
                                           000400
                                                                                                                                                     BITB
                                                                                                                                                     BITS
BIT9
                                          000400
                                                                                                          TRE
                                           001000
                                                                                                           WCEZ
                                                                                                                                                    BIT11
BIT12
            63
64
65
66
67
69
77
77
77
77
77
77
78
80
                                          004000
                                                                                                          PARITY-
                                           010000
                                                                                                           DPBF.
                                                                                                                                                    BIT13
BIT14
                                          020000
                                                                                                          HNVCR
                                           040000
                                           100000
                                                                                                          COMP
                                                                                                           : MODE - CONTROL - REGISTER
                                                                                                                                                                         RECEIVE PACKING MODE BIT 0
RECEIVE PACKING MODE BIT 1
RECEIVE PACKING MODE BIT 2
RCV. ATTENTION UNIVAC IS SENDING DATA
RCV. FUNCTION RECEIVED FROM UNIVAC
XMIT. TRANSMIT PACKING MODE BIT 0
XMIT. TRANSMIT PACKING MODE BIT 1
XMIT. TRANSMIT PACKING MODE BIT 2
XMIT. SEND STATUS TO UNIVAC WITH INTERRUPT
                                          000001
                                                                                                          RPMA
                                                                                                                                                     BITA
                                          000002
000004
                                                                                                          RPM1
                                                                                                                                                     BIT1
                                                                                                          RPM2
                                                                                                                                                    BIT2
                                                                                                          DA:
FREUC:
                                                                                                                                                    BIT6
BIT7
                                           000100
                                          000200
                                          000400
001000
                                                                                                          TPM0
                                                                                                                                                    BIT8
BIT9
                                                                                                                                                    BIT10
BIT15
                                          กลวดคล
                                                                                                           TPM2
                                           100000
                                                                                                          SSTU
             81
82
                                                                                                              NUMBER - OF - UNITS
                                                                                          Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

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ACC · HANDLER · EQUATED · SYMBOLS ·
     834
856
859
991
995
995
100
100
100
100
100
100
                    000002
                                                    A$$C11 ==
                                                                         2.
                                                                                    ;TWO-UNITS-
                                                    RESTART REQUEST AND RESTART ACKNOWLEDGEMENT GOD NO.
                                                                                   :RESTART-REQUEST
:RESTART-ACKNOWLEDGEMENT
                    000052
000070
                                                    ŔSTRTC: =
                                                    RACK -
                                                                         70
                                                      SPECIAL I/O FUNCTION CODES. EXISTING FUNCTION CODES.
                                                                                            THESE ARE ACTUALL A REDEFINITION OF
                    003000
003400
                                                                         IO.MOD
                                                                                              :TRANSMIT-STATUS-CODE:
                                                     IO.RFC· =·
                                                                         IO.RTC
                                                      THE-FOLLOWING-SYMBOL-IS-DEFINED-FOR-THE-CALL-TO-$IMTSV-WHICH-IN-IN-THE-INTSV$ MACRO-
                    000001
                                                    LD$AC
                                                    ; DDEFINE RECEIVE AND TRANSMIT "CHTBL" TABLE OFFSETS
                                                    ŔCV:
                     000000
                                                                                              :RECEIVE OFFSET:
:TRANSMIT.OFFSET
                    000002
                                                    XMT
```

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ACC - HANDL
                       MACRO M1110 27-MAR-80 13:32 PAGE 9
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LOCAL DA
                                                                        .SBTTL··LOCAL·DATA
      107
                                                               LOCAL DATA
      109
      110
                                                                                               n$$C11-1
;FOR:THE:INTSV$ MACRO
      111 000000
                       000000
                                                            TEMP:
                                                                        WORD
                                                                                    0
      112·
113 000002
                                                                        .ENDC
                                                                                               :LINKAGE BETWEEN FORK PROCESSES AND INTERRUPTS :UHL BLOCK COUNT
                                                            CHTBL:
                                                                       .BLKW
                                                                                    A$$C11
      114 000006
                                                            NB.UHL: .WORD.
                                                                                    Ø
      115
      i i6
117
                                                            ; ACINI-DISPATCH-TABLE
      i 18
1 19
           000010
000016
                                                            ÝΕC:
                                                                        EHTRY
                                                                                    IO.INL.RSTRT.0.0
IO.WLB.XMIT.1.1
IO.TFC.XMIT.1.0
IO.RLB.RECEVE.1.1
      120
121
           000024
000032
                                                                        ENTRY
                                                                       ENTRY-
      122-000040
123-000046
                                                                                    IO.RFC.RECEVE,1,0
                                                                       EHTRY-
                                                                                    0.0.0.0
      124
125
126
                                                              DRIVER'S DISPATCH TABLE
                                                                                                                                                                       ₩.
      127
           000054
                                                            $ACTBL::
                                                                                   ACINI: DEVICE: INITIATOR: ENTRY: POINT:
CANCEL: I/O: OPERATION: ENTRY: POINT:
TIMOUT: TIME: OUT: ENTRY: POINT:
POWER: POWERFAIL: ENTRY: POINT:
                        000116
      128
           000054
      129
130
           000056
                                                                        . LIORD
           000060
                       0027601
           000062
                       0027341
                                                                        . WORD
      132
                                                            RESTART FLAG. THIS FLAG IS SET WHEN A RESTART (IO.INL) MUST BE ISSUED ON THE RECEIVE LUN TO RE-INITIALIZE THE HANDLER AND LINE.
      133
      134
      136
           000064
                       000001
                                                            RESTRT: .WORD.
                                                                                               ;HANDLER - IS - LOADED - IN - THE - RESTART - MODE
                                                              THIS-VARIABLE-CONTAINS-THE-ADDRESS-OF-THE-UCB-WHICH-IS-REQUESTING-A-RESTART. AFTER-THE-RESTART-IS-COMPLETED-THIS-ADDRESS-IS CLEARED.
      138
      139
140
      141
142
           000066
                                                            RSTADD: .WORD
      143
144
                                                              FLAG-INDICATES THAT THE ACC HARDWARE IS IN LOOP BACK MODE. IN THIS MODE DMA'S DO NOT HAVE TO BE PRECEDED BY A FUNCTION OR STATUS WORD.
      145
      147 000070 000000
                                                            LOOPB: .WORD:
      149
                                                                  TABLE OF PACKING MODES INDEXED BY TRANSACTION TYPE
                            000
000
      151
           000072
                                        000
000
                                                          PACK:
                                                                        .BYTE
                                                                                   0.0,0,0,0
                                                                                                           :TRANS. TYPE
                                                                                                                                   = .0,1,2,3,4
           000075
      152 000077
                            003
                                                                                                                                   = · 5
= · 6
= · 7
      153 000100
154 000101
                            003
                                                                        .BYTE
                                                                                                                                               DOC
                            ดดส
                                                                                                                                               PURGE -
REPLACE
      155
156
           000102
000103
                            003
003
                                                                                                                                   = · 8.
= · 9.
= · 10.
                                                                        .BYTE
                                                                        .BYTE
                                                                                                                                               OVERLAY
          000104
000105
                           000
004
      157
                                                                                   949
                                                                       .BYTE
                                                                                                                                   = · 11.
= · 12.
                                                                                                                                               READ
     159 000106
160 000107
                           000
003
                                                                       BYTE.
                                                                                                                                               SUB-DOC
                                                                                                                                   = · 13.
     161 000110
                           004
                                                                                                                                               DEL · SUB-DOC
                                                  Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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-- -- THE VERY NEW COMMENTS OF

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ACC - HANDL
                            MACRO-M1110 27-MAR-80 13:32 PAGE 10
                                                             Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
                     RY POINT
ACINI -
       168
                                                                                       .SBTTL - ACINI --- ENTRY POINT-
       170
171
172
173
174
                                                                           **-ACINI-ACC DRIVER INITIATOR
                                                                          THIS ROUTINE IS ENTERED FROM THE QUEUE I/O DIRECTIVE WHEN AN I/O REQUEST IS QUEUED AND AT THE END OF A PREVIOUS I/O OPERATION TO PROAGATE THE EXECUTION OF THE DRIVER. IF THE SPECIFIED CONTROLLER IS NOT BUSY, THEN AN ATTEMPT IS MADE TO DEQUEUE THE NEXT I/O REQUEST. ELSE A RETURN TO THE CALLER IS EXECUTED. IF THE DEQUEUE ATTEMPT IS SUCCESSFUL, THEN THE NEXT I/O OPERATION IS INITIATED. A RETURN TO THE CALLER IS THEN EXECUTED.
                                                                                                                                                                                                                                   SIMS
        175
       176
177
178
179
        180
       181
        182
                                                                           R5=ADDRESS-OF-THE-UCB-OF-THE CONTROLLER-TO-BE-INITIATED
       183
       184
185
                                                                           OUTPUTS:
                                                                           IF THE SPECIFIED GONTROLLER IS NOT BUSY AND AN IZO REQUEST IS WAITING TO BE PROCESSED. THEN THE REQUEST IS DEQUEUED AND THE IZO OPERATION IS
        186
       187
                                                                            INITIATED:
       189
        190
              000116
       191
                                                                        ACINI:
              000116
                                                                                      CALL
                                                                                                     $GTPKT.
                                                                                                                                 #GET-AN-I/O-PACKET TO-PROCESS:
#IF-C-SET-CONTROLLER-BUSY-OR NO-REQUEST
       193
              000122
                           103453
                                                                                                     RETTE.
        194
       195
                                                                           THE FOLLOWING ARGUMENTS ARE RETURNED BY SGTPKT
       196
197
                                                                                      R1=ADDRESS-OF-THE-IZO-REQUEST-PACKET-
R2=PHYSICAL-UNIT-NUMBER-OF-THE-REQUEST-UCB
R3=CONTROLLER-INDEX-
R4=ADDRESS-OF-THE-SCB-
R5=ADDRESS-OF-THE-UCB-
       198
199
       200
201
       202
203
       204
205
                                                                           SAVE-THE UCB-ADDRESS-FOR-THE INTERRUPT ROUTINE.
       206
              000124 010563 000002*
                                                                                      MOV
                                                                                                    R5,CNTBL(R3)
       208
      209
210
211
212
213
                                                                                                                                                                                                             - 12 h
                                                                           USE-THE-DISPATCH-TABLE-TO-FIND-OUT-WHICH-ROUTINE TO-CALL
                                                                                                                                                                                                        and the second
              000130
                                                                        1$:
             000130
000134
                            012700
                                           0000101
                                                                                                                                                                                                      Las et al esta de las properties à
                                                                                                     #VEC.R0
                                                                                                                                 :R0->START-OF-DISPATCH-TABLE
                                                                        5$:
                                                                                                    I.FCN+1(R1),(R0);DDES-INPUT-FUNC-MATCH-TABLE ENTRY.?.

2$ ;YES, SEE-IF-ROUTINE-CAN-BE-CALLED.

(R0)+ ;1S-THIS THE-LAST-ENTRY-IN-THE-TABLE.?.

4$ ;YES, INVALID-FUNC CODE.

(R0)+,(R0)+,(R0)+ ;NO, GO-GET-NEXT-ENTRY-ENTRY.
       214
215
             000134
000140
                             126110
                                           000001G
                                                                                      CMPB
                            001404
                                                                                      BEQ.
       216
             000142
000144
                            005720
                            001435
                                                                                      BEO
       218
219
              000146
                            022020
000771
              000150
                                                                                      BR
       228
                                                                           IF THE RESTART FLAGE IS SET FOR THE ENTRY AND THE "RESTRT" FLAGE IS SET, DO NOT CALL THE ROUTINE, ELSE CALL THE ROUTINE,
       221
      222
223
       224 000152
                                                                        2$:
                                                             Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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POINT Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
ACC HANDLER
ACINI --- ENTRY POINT
       225 000152
                           105760
                                         000004
                                                                                                                          : IS: THE RESTART: FLAG SET: FOR THE ENTRY ?: YES: CALL: RESTART: IF: IN: LOOP: BACK: MODE: ANYTHING; IS: LEGGIT: :: FLAG: SET: SO: GO ISSUE: 1/O:
                                                                                  TSTB
                                                                                               4(RB)
      226
            000156
                           001425
                                                                                 BEQ
TST
                                                                                               3$
L00PB
             000160
                           005767
                                         177704
      228 000164
229 000166
                           001022
                                                                                  BNF
                                                                                                                          #FLAG-SET, SO-GO-ISSUE-IZO-

*IS-THE-RESTART-FLAG-SET-?-

*YES, RETURN-ERROR

*IS-THE-MUST-BE-ZERO-BLOCK-COUNT-FLAG-SET-?-

*NO, TRANSFER-FUNCTION-MUST-HAVE-+VE-BLOCK-COUNT-

*YES, IS-THE-BLOCK COUNT-ZERO-?-

*YES, GO-CALL-FUNCTION-

*NO, RETURN-AN-ERROR-
                           005767
                                         177672
                                                                                               RESTRT
      230 000172
231 000174
                           001012
                                                                                 BNE
                           105760
                                         000005
                                                                                               5(RØ)
      232 000200
233 000202
                           001004
                                                                                 BHE TST
                                                                                               63
                           005765
                                         000000G
                                                                                               U.CW3(R5)
      234 000206
235 000210
236 000212
                                                                                 BEO
                                                                                               3$
                           000403
                                                                                 \mathsf{BR}
                                                                                               7$
                                                                    5$:
       237 000212
                           005765
                                         000000G
                                                                                               U.CW3(R5)
                                                                                                                          :IS-THE-BLOCK-COUNT-ZERO- FOR-DMA-OPERATIONS-?-:NO. GO-DO-THE-DMA OPERATION
       238 000216
                           003005
                                                                                 BGT
                                                                                               3$
       239 000220
                                                                                                                          REPORT : ERROR:

SYSTEM: IN: RESTART AND WILL: NOT: ACCEPT

THIS: FUNCTION; SO NOTIFY: THE: CALLING:
       240 000220
                           012700
                                        000000G
                                                                                 MOV-
                                                                                               #IE.DHR.RØ
       241
       242
                                                                                                                          : TASK
      243
244
             ñññ224
                                                                                               $IODON-
                                                                                 CALL
             000230
                           000732
                                                                                 BR
                                                                                                                          \sharp \mathsf{GO} \cdot \mathsf{SEE} \cdot \mathsf{IF} \cdot \mathsf{THERE} \cdot \mathsf{ARE} \cdot \mathsf{MORE} \cdot \mathsf{I} \diagup \mathsf{O} \cdot \mathsf{PACKETS}
       245
       246
                                                                      A.VALID.FUNCTION.CODE.WAS.FOUND.AND.IT PASSED.THE.PROPER.RESTART REQUIREMENTS, SO.CALL.THE.ROUTINE,
      247
248
      249 000232
                                                                    3$:
       250
            000232
                          004770
                                        000002
                                                                                 JSR
                                                                                              PC.02(R0)
                                                                                                                          CALL THE ROUTINE INDIRECTLY FROM THE TABLE SOO GET ANOTHER I/O PACKET.
       251
      252
253
             000236
                          000727
                                                                                 BR
      254
255
                                                                    : AN INVALID FUNCTION WAS FOUND, NOTIFY THE ERRING TASK
      256
257
             000240
                                                                   44:
             000240
                          012700
                                        ARRABAG.
                                                                                               #IE.IFC.R0
            000244
                                                                                 CALL
                                                                                               $IODON
                           000722
             000250
                                                                                 BR
                                                                                              ACINI -
                                                                                                                          :GO-GET-ANOTHER-I/O-PACKET
      260
      26 i
                                                                    : RETURN.TO.THE.EXECUTIVE.
      262
      263 000252
                                                                   RETTE: RETURN
```

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ACC · HANDL
                           MACRO M1118 27-MAR-88 13:32 PAGE 11
TINE Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                   ROUTINE
      265
266
                                                                                   .SBTTL- RSTRT--- SUBROUTINE-
      267
268
                                                                        ***--RSTRT.- RESTART.RROUTINE.
                                                                        THIS ROUTINE RESTARTS THE ACC CHANNEL, THIS ROUTINE IS CALLED WHEN A TASK REQUESTS A RESTART VIA AN IOLINL, THIS REQUEST MUST BE ON THE RECEIVE UNIT (UNIT 0). THE ROUTINE RESETS THE ACC HARDWARE, CLEARS ALL THE ACC HARDWARE REGISTERS, SETS UP THE LOOP BACK MODE (IF NECESSARY) SENDS THE RESTART CODE "RSTRTC" AND ENABLES THE INTERRUPTS.
       269
       270
       271
272
       275
276
277
278
                                                                                  R1=ADDRESS.OF.THE.IZO.REQUEST.PACKET.
R2=PHYSICAL.UNIT.NUMBER.OF.THE.REQUEST.UCB
R3=CONTROLLER.INDEX.
R4=ADDRESS.OF.THE.SCB.
       279
280
281
282
                                                                                   R5=ADDRESS OF THE UCB
       283
                                                                        OUTPUTS:
       284
                                                                                  THE SAME AS THE INPUTS EXCEPT RØ POINTS TO THE FIRST CSR IN THE ACC HARDWARE REGISTER SET.
       285
286
       287
       289
             000254
                                                                     ŔSTRT:
       290
                                                                        IS-THE-IZO-REQUEST ON-UNIT-07-IF-SO, CONTINUE, ELSE-
SEND-ERROR-BACK-TO THE-REQUESTING-TASK AND-RETURN-TO
       291
       292
293
                                                                        THE CALLING ROUTINE.
      294
       295
             000254
                           105765
                                                                                                U.UNIT(R5)
3$
#IE.LNL,R0
                                         0000006
                                                                                   TSTB
                                                                                                                                         :IS-THE-UNIT-=-0 ?-
:YES-CONTINUE-
             000260
000262
                           001405
012700
                                                                                  BEQ
                                         000000G
                                                                                  MOV
                                                                                                                                          :NO. GIVE BAD STATUS BACK TO TASK
       298
             000266
                                                                                   CALL
                                                                                                 $IODON.
       299
300
              000272
                           000473
                                                                                  BR
                                                                                                4$
                                                                                                                                          :EXIT:
             000274
                                                                                                S.CSR(R4),R0
#RESET,T.CSR(R0)
#RESET,T.CSR(R0)
#RESET,T.CSR(R0)
       301
             000274
                           016400
                                         000000G
                                                                                                                                         :R0->FIRST ACC:CSR:
:RESET:THE ACC:HARDWARE:
:KEEP:DOING:IT:UNTIL IT:SEES:IT:
                                                                                  MOV
             000300
000306
                           052760
052760
                                         000004
000004
       302
                                                       000010
                                                                                  BIS-
                                                                                  BIS.
BIS.
TSTB
                                                      000010
       304 000314
                           052760
                                         000004
                                                       000010
                                                                                                                                          : DITTO:
       305
             000322
                           105761
                                                                                                                                                                                                             1.20
                                         000000G
                                                                                                \mathsf{I}_{\bullet}\mathsf{FCH}(\mathsf{R}_{\bullet})
                                                                                                                                          :LOOPBACK REQUESTED ?
       386
             000326
                           001413
                                                                                  BEQ
                                                                                                                                                                                                  - Topidatise
       308
                                                                        SET-UP-LOOP-BACK
       309
      310
             000330
000334
                           005267
                                         177534
                                                                                   INC
                                                                                                                                          ;SHOW-WE-ARE-IN-LOOP BACK-MODE
                                                                                                I.FCN(R1).R3
#177770.R3
#2,R3
                           116103
                                         000000G
                                                                                                                                         #SOUND HERE IN LOUP BHCK MODE
#GET MODIFYER BYTE -
#MASK OFF GARBAGE -
#SHIFT UP TO PROPER BITS -
#SET THE PROPER LOOP BACK MODE
                                                                                  MOVE
      312-000340
313-000344
                                                                                  BIC
                                                                                  ASH
      314
315
316
                                                                                  BIS
             000350
                           050360
                                         000000
                                                                                                R3.R.CSR(R0)
             000354
000356
                           000402
                                                                     1$:
      317
318
319
320
321
             000356
                           005067
                                         177506
                                                                                                LOOPB-
                                                                                                                                         ;SHOW THAT WE ARE NOT IN LOOP BACK
             000362
                                                                     5$:
                                                                       SHOW THAT WE ARE IN THE RESTART MODE
                                                          Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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RSTRT.-- SUBROUTINE Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
      322-000362-
323-000366
324
                          005065
                                       000000G
                                                                               OLE.
                                                                                            U.CW3(R5)
RESTRT
                                                                                                                                    :CLEAR RECEIVE BLOCK COUNT
                          005267
                                        177472
                                                                               INC
      325
326
327
328
                                                                     LOAD THE RESTART CODE INTO THE XMIT STATUS REGISTERS
                                                                                                                                                                 77
             000372
000376
                                                                               SAVE -
                                                                                            R2,R3
                                                                                           R2.R3

#RSTRTC.R2.

#+2.R2.

R2.T.EF0(R0)

R3.T.EF1(R0)

T.EF2(R0)

R2.R3

#SSTU.MCR(R0)

P5.PSTU.ND.
                                                                                                                                   #R2:=:RESTART:CODE:(52)
#SHIFT:RIGTHMOST:2:BITS:TO:R3
#LOAD:BITS 32-35
#LOAD:BITS 16-31
#LOAD:BITS 0-15
                          012702
                                        000052
                                                                               MOV.
                          073227
010260
                                       177776
000032
       329 000402
                                                                               ASHC
       330
             000406
                                                                               MOV.
       331
             000412
                          010360
                                        000030
       332 · 000416
333 · 000422
                          005060
                                        000026
                                                                               CLR
                                                                               RESTOR.
      334 000426
335 000434
336
337
                           052760
                                        100000
                                                    000034
                                                                               BIS
                                                                                                                                   ;SET-THE-GO-BIT-FOR-THE-WORD
;SAVE-ADDR OF-UCB-RSTRT-ROST
                          010567
                                        177426
                                                                               MOV
                                                                                            R5.RSTADD
                                                                     SET: THE: TIME: OUT: FOR: THE: RECEPTION: OF: THE: RESTART: ACKNOWLEDGEMENT AND: ENABLE: INTERRUPTS:
       338
339
                                                                                            S.ITM(R4),S.CTM(R4)
#INT,T.CSR(R0)
#INT,R.CSR(R0)
       340 000440
341 000446
                          116464
052760
                                        000000G - 000000G
                                                                               MOVB -
                                                                                                                                   ;SET-THE-TIME-OUT-
;ENABLE-XMIT-INTERRUPTS-
;ENABLE-RCV-INTERRUPTS-
                                        000100
                                                                               BIS.
                                                    000010
      342 · 000454
343
344
345
                          052760
                                       000100
                                                                     RETURN TO THE CALLING ROUTINE
             000462
       346
                                                                  4$:
             000462
                                                                               RETURN-
```

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ACC · HANDL
                           MACRO M1110 27-MAR-80 13:32
                                                           AR-80 13:32 PAGE 12
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
       349
350
                                                                                     .SBTTL .XMIT -- SUBROUTINE
       351
352
353
354
                                                                          **--XMIT - XMIT-ROUTINE
                                                                        THIS ROUTINE SETS UP TRAMSMIT FUNCTIONS. THIS CAN INCLUDE BOTH DMA AND SEND STATUS OPERATIONS. THE COMPLETION WILL BE HANDLED IN THE XMIT ISR (XMTINT). THE COMPLETION WILL BE HANDLED IN THE ROUTINE FIRST CHECK TO SEE THAT THE TRANSMIT OPERATION IS ON UNIT 1. IF NOT AN ERROR IS RETURNED TO THE REQUESTING TASK. THE NUMBER OF DMA BLOCKS THAT IS TO BE QUIPPUT IS NEXT CHECKED. IF THIS IS NOW. ZERO FOR A SEND STATUS OPERATION, AN ERROR IS RETURNED TO THE CALLING TASK. ALSO, IF THE NUMBER OF BLOCKS IS ZERO AND IT IS A DMA OPERATION, AN ERROR IS RETURNED TO THE CALLING TASK. ELSE, EITHER THE DMA OR SEND STATUS OPERATION IS SETUP.
       355
       357
       359
       360
       361
       363
       364
365
                                                                                   st
R1=ADDRESS-OF-THE-IZO-REQUEST-PACKET-
R2=PHYSICAL-UNIT-NUMBER-OF-THE-REQUEST-UCB
R3=CONTROLLER-INDEX-
R4=ADDRESS-OF-THE-SCB-
R5=ADDRESS-OF-THE-UCB-
       366
367
       368
       370
371
372
                                                                         REGISTER USAGE:
                                                                                   RO IS-USED-FOR-SETTING UP-DATA-
R3->ADDRESS-OF-THE-FIRST-ACC-HARDWARE-REGISTER
       374
       376
                                                                         OUTPUTS:
                                                                                   RØ AND R3 ARE DESTROYED.
      381
       382-000464
                                                                       XMIT:
      383
      384
385
                                                                         {\tt IS-THIS-THE-CORRECT-UNIT-?--- IT-MUST-BE-UNIT-1 FOR-XMIT-OPERATIONS.}
       386
             000464
                                         000000G-000001
                            126527
                                                                                   CMPB
                                                                                                  U.UNIT(R5),#1,
             000472
000474
                           001405
012700
      387
                                                                                   BEQ:
MOV:
CALL:
                                                                                                  3$
                                         1.999996
                                                                                                  #IE.ILU,R0
      389
             йййбий
                                                                                                  IODONE
      390
391
             000504
                           000514
                                                                                                                                            :EXIT-
            000506
      392
                                                                        IS-THIS-A-DMA-OPERATION-?-
      394
            000506
      395
                           126127
                                         000001G-000000C
                                                                                   CMPB -
                                                                                                 I.FCN+1(R1),#IO.WLB/256.
                                                                                                                                             #WRITE:?
      396
397
             000514
                           001055
                                                                                   BHE
                                                                                                                                           :NO. IT MUST BE SEND STATUS
      398
399
                                                                        SETUP - A - DMA - OPERATION -
            000516
000522
                                                          400
                           016403
                                         000000G
      401
                           016563
                                         000002G-000014
      402
            000530
                           016500
                                         000000G
      403 000534
                          042799
                                         177717
      404 000540
                           042763
                                         000060
                                                       000010
      405 000546
                          050063
                                         000010
```

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ACC: HANDLER: MACRO: M1110 27-MAR+80 13:32: PAGE 12-1
XMIT: -- SUBROUTINE: Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
      406 000552
                         016100
                                     000004G
                                                                           MOV
                                                                                        I.PRM+4(R1),R0
                                                                                                                             :GET - XMIT - BYTE - COUNT
      497
            000556
                         032700
                                     000001
                                                                                        #BIT0.R0
                                                                           BIT
                                                                                                                             :ODD BYTE COUNT?
            000562
       408
                                                                           BOFF
                                                                                        50$
                                                                                                                                                                    Ė.
                                                                                                                                                                               7.50
            000564
000570
                                                                                        #IE.BAD,R0
      499
                         012700
                                     000000G
                                                                           MOV:
                                                                                                                             :YES, REPORT BAD PARAMETER
       410
                                                                           CALL
BR
                                                                                        IODONE -
                                                                                                                                                                             ١
                                                                                                                            :AND EXIT:
:CONVERT.BYTES.TO.WORDS:
:PUT.TRANSMIT.WORD.COUNT:
:GET.THE.PACKING.MODE:
:MASK.OFF.ANY.GARBAGE:
:SHIFT.FOR MCR:
:CLEAR.BITS.8.9 AND.10
:SET.INTO.MCR.(BITS.8.9 AND.10)
:TELL.HARDWAR.TO.SEND.DATA:
:SET.THE.TIME.OUT:
      411 000574
412 000576
                         000460
006200
                                                                                        99$
                                                                           ASR -
                                                               50%:
                                                                                        RØ
      413 000600
414 000604
415 000610
                                     000016
013006G
177770
                         010063
016100
                                                                                        RØJT.WC(R3)
                                                                           MOV
                                                                                        I.PRM+6(R1),R0
#177770,R0
                                                                           MOV
                         042700
      416 000614
417 000620
418 000626
                         072027
042763
                                      000010
                                                                           ASH
                                                                                        #8. RA
                                                                                       #3400,MCR(R3)
#3400,MCR(R3)
R0.MCR(R3)
#DMAGO,T.CSR(R3)
S:ITM(R4),S:CTM(R4)
                                                  000034
                                                                           BIC
                                     003400
                         050063
                                     000034
      419
            000632
                         052763
                                      000001
                                                  000010
                                                                           BIS
      420
            000649
                         116464
                                     000000G · 000000G
                                                                           MOVB
      421
422
            000646
                         000433
                                                                           BR
                                                                                        99$
      423
424
                                                                 OUTPUT-A 36 BIT-STATUS-WORD-TO-THE-UNIVAC
      425
426
            000650
                                                               1$:
            888658
                                                                           CALL
                                                                                        SETAPR
                                                                                                                             SETUP THE APR TO MAP INTO
                                                                                                                            #SETUP-THE APR-TU-MAP-INTU-

#THE-TASKS MEMORY-AREA-

#R3->FIRST ACC-REGISTER-

#GET-FIRST WORD-OF-STATUS-

#GET-SECOND-WORD-OF-STATUS-

#GET-THRID WORD-OF-STATUS-

#RESTORE-APR-6
      427
      428
            000654
                         016405
012063
                                     000000G
                                                                           MOV-
                                                                                        S.CSR(R4),R3
      429
            000660
                                     000032
                                                                                        (R0)+,T,EF0(R3)
(R0)+,T,EF1(R3)
(R0),T,EF2(R3)
                                                                           MOV.
      430
                         012063
011063
                                     вовозо
            000664
      431
432
            000670
                                      000026
                                                                           MOV
            000674
                         012667
                                     000000G
                                                                           MOV
                                                                                        (SP)+.KISAR6
      433
                                                                 GET-THE-BLOCK-COUNT-FROM-THE 36 BIT-FUNCTION-
      435
      436
437
            000700
                         016300
042700
072027
                                     000030
                                                                                       T.EF1(R3).R0
                                                                           MOV
            000704
000710
                                     140000
177776
                                                                           BIC
                                                                                        #140000.RA
                                                                                                                             :MASK-OFF-OTHER-INFO
      438
                                                                           ASH
                                                                                        #-2,R0
      439 000714
                         010065
                                     0000000
                                                                           MOV
                                                                                       R0.U.CW3(R5)
                                                                                                                             :STORE IN WORD COUNT AREA
      440
      441
                                                                 SETUP - THE - TIME - OUT
      442
      443 000720
                         116464
                                     000000G · 000000G
                                                                           MOVB
                                                                                       S.ITM(R4),S.CTM(R4)
      444
      445
                                                                 TELL HARDWARE TO SEND THE STATUS
      446
            000726
      447
                         052763
                                     100000 000034
                                                                                        #SSTU,MCR(R3)
      448
                         000400
                                                                           BR
                                                                                       99$
                                                                                                                            :EXIT
      449
      450
451
                                                                 RETURN TO CALLING ROUTINE
      452 000736
453 000736
                                                              99$:
                                                                           RETURN
      454
455
                                                                                                                                                                                         - L. G. A. S. S.
```

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ACC HANDLE
                                 MACRO-M1110 27-MAR-80 13:32 PAGE 13
                                                                      Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                          BROUITHE
RECEVE . -
        457
                                                                                                     .SBTTL · RECEVE · -- SUBROUITHE
        458
        459
        460
461
                                                                                       **--RECEVE-- PROCESS-A-NEW-RECEIVE-I/O PACKET-
                                                                                       THE PURPOSE OF THE RECEVE ROUTINE IS TO SETUP THE ACCHARDWARE TO RECEIVE EITHER A 36 BIT EXTERNAL FUNCTION OR BLOCK OF WORDS (16 BIT) VIA THE RECEIVE DMA. IF A REQUEST TO RECEIVE A FUNCTION IS ISSUED WHILE THE HANDLER IS IN THE PROCESS OF INPUTTING ONE OF MORE DMA BLOCKS. THE REQUEST IS REJECTED. IF AN APPLICATION TASKS TRYS TO ISSUE A DMA OPERATION BEFORE THE FUNCTION REQUEST IS ISSUED. THE DMA OPERATION IS PETETED.
        462
463
         464
         465
        466
467
        468
469
470
471
472
473
                                                                                       OPERATION IS REJECTED.
                                                                                       SINCE AN EXTERNAL FUNCTION CAN BE RECEIVED BEFORE THE EXECUTIVE GIVES THE 170 PACKET TO THE HANDLER, THE RECEVE ROUTINE WILL CHECK TO SEE IF A FUCNTION HAS BEEN INPUT, IF ONE HAS BEEN INPUT, IT IS IMMEDIDATELY RETURNED TO THE REQUESTING TASK. IF THE IMPUT FUNCTION IS A RESTART REQUEST FROM THE UNIVAC, AN EKROR IS RETURNED TO THE APPLICATION TASK. THEN THE TRANSMIT ROUTINE IS NOTIFIED OF A RESTART.
        474
475
        476
477
        478
479
         480
                                                                                        INPUTS:
         481
                                                                                                   R1=ADDRESS.OF.THE.I/O.REQUEST.PACKET.
R2=PHYSICAL.UNIT.NUMBER.OF.THE.REQUEST.UCB
R3=CONTROLLER.INDEX.
R4=ADDRESS.OF.THE.SCB.
R5=ADDRESS.OF.THE.UCB.
         482
         483
        484
485
        486
487
         488
         489
                                                                                       REGISTER USAGE:
         49n
                                                                                                    R0 IS-USED-FOR-SETTING UP-DATA
R3->FRIST-ACC-HARDWARE ADDRESS
         492
        493
494
                                                                                       OUTPUTS:
        495
496
497
                                                                                                    RØ AND R3 ARE DESTROYED.
         498
        499
                000740
                                                                                   RECEVE:
        501
                                                                                       FIRST-CHECK-TO-SEE IF-THIS-IS-UNIT-0. IF-NOT-RETURN-AN-ERROR
        502
        503
                000740
                                 105765
                                                  000000G
                                                                                                                     U.UNIT(R5)
                000744
                                 001405
                                                                                                    BEO.
                                                                                                                     1$
#IE.ILU.R0
                                                                                                                                                                       :NO · ERROR ·
        505
                                 012700
                                                  000000G
                                                                                                    MOV.
                                                                                                                                                                       YES-THERE IS-AN-ERROR-
RETURN-ERROR-TO-TASK-
GO-RETURN
        506
                000752
                                                                                                    CALL
                                                                                                                     IODONE
        507
                000756
                                 000463
        508
                000760
                                                                                   1$:
        509
       510
511
                                                                                       CHECK-TO SEE-IF-A-DMA-OPERATION-IS-REQUESTED-
                                                                      MOV S.CSR(R4).R3 ;R3->1ST-ACC-HARDWARE-REGISTER 1.FCN+1(R1).#IO.RLB/256.;IS-THIS-A-DMA-OP-REQUEST-? Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
        512-000760
                                 016403
        513 000764
                                 126127
                                                  000001G 000000C
```

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ACC - HANDLER
                                               MACRO M1110 27-MAR-80 13:32 PAGE 13-1
PITNE Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
RECEVE -- SUBROUITHE
            514 000772 001040
                                                                                                                                               BNE
          514
515
516
517
518
519
520
                                                                                                                                                                      #FRFUC,MCR(R3)
                                                                                                                                              BIT
                                                                                                                                                                                                                                              ;YES, FUNCTION INPUT ?
                                                                                                                                              BEQ
                                                                                                                                                                                                                                              :NO-
                                                                                                                                                                                                                                                                                                                                                                                  -10 M
                                                                                                                                                                       #FRFUC,MCR(R3)
                                                                                                                                              BIC
                                                                                                                                                                                                                                              :YES, REPORT ERROR
                                                                                                                                              MOV.
CALL
                                                                                                                                                                       #IE.CHR.RØ
                                                                                                                                                                       IODONE -
                                                                                                                                                                                                                                              :GO-FINISH ERROR-REPORTING
                                                                                                                       ;
3$:
                       000774
            523
524
                                                                                                                            SET-UP-FOR-DMA-INPUT-
            525
526
                       000774
                                                                                                                       4$:
                                                                                                                                                                                                                                            GET LOWER 16 BIT ADDRESS
GET UPPER 2 BITS OF 18 BITS
MASK OFF GARBAGE
CLEAR EXTENSION BITS
PLACE INTO EXTENSION BITS
GET PACKING MODE
MASK OFF GARBAGE
CLEAR BITS 0. 1 AND 2
PUT INTO PACKING MODE BITS
GET THE INPUT BYTE COUNT
ODD BYTE COUNT?
NO CONTINUE
                       000774
                                               016563
                                                                       000002G-000004
                                                                                                                                                                      U.BUF+2(R5),R.MA(R3)
             527
                       001002
                                                016500
                                                                       000000G
                                                                                                                                                                      U.BUF(R5),R0
#177717,R0
#60,R.CSR(R3)
                                                                                                                                              MOV
             528-001006
                                               042700
042763
                                                                        177717
             529 001012
                                                                        000060
                                                                                               000000
                                                                                                                                              BIC
                                                                                                                                                                     #60,R.CSR(R3)
R0,R.CSR(R3)
I.PRM+6(R1),R0
#177770,R0
#7,MCR(R3)
             530
                       001020
                                               050063
                                                                       000000
            531
532
                                                                                                                                              MOV
                                                                                                                                              BIC
            533
            534
                                                                                                                                              BIS
                                                                                                                                                                      R0,MCR(R3)
I:PRM+4(R1),R0
            535
536
                       001024
001030
                                               016100
032700
                                                                       000004G
                                                                       000001
                                                                                                                                                                      #BIT0.R0
40$
                                                                                                                                              RIT
            537
                       001034
                                                                                                                                              BOFF
                                                                                                                                                                                                                                             ;NO.CONTINUE.
;YES, REPORT.BAD.PARAMETER
            538
539
                       001036
                                               012700
                                                                       000000G
                                                                                                                                                                      #IE.BAD,RØ
                                                                                                                                              MOV
                       001042
001046
                                                                                                                                               CALL
            540
                                               000415
                                                                                                                                              BR
                                                                                                                                                                      50$
            541
542
                       001050
001052
                                                006200
                                                                                                                                              ASR
                                                                                                                                                                                                                                             CONVERT BYTES TO WORDS
PUT RECEIVE WORD COUNT
ACITVATE THE DMA
SET THE TIME OUT
                                                                                                                                                                      RØ
                                               010063
                                                                       000006
                                                                                                                                              MOV
BIS
                                                                                                                                                                      RØ.R.WC(R3)
#DMAGO.R.CSR(R3)
                      001056
001064
                                               052763
116464
            543
                                                                       000001
                                                                                              000000
             544
                                                                       придоводной придов
                                                                                                                                                                      S.ITM(R4),S.CTM(R4)
99$
                                                                                                                                              MOVB
            545
                       001072
                                               000415
                                                                                                                                                                                                                                             ;GO-EXIT
            546
           547
548
                                                                                                                            PROCESS FUNCTION REQUESTS
                      001074
            549
                                                                                                                       2$:
            550
                                                                                                                                              CALL
                                                                                                                                                                      FUNCT
            55.1
                       001100
                                               000412
                                                                                                                                              {\sf BR}
                                                                                                                                                                     99$
                                                                                                                                                                                                                                             :GO-EXIT-
                                                                                                                           FINISH PROCESSING ERRORS BY SETTING THE RESTART FLAG AND INDUCING
            553
            554
555
556
                                                                                                                       ; AN ERROR INTERRUPT IN THE TRANSMIT SIDE.
                       001102
                                                                                                                       50%:
            557
                      001102
                                               042763
                                                                       000100
                                                                                               000010
                                                                                                                                                                      #INT.T.CSR(R3)
                                                                                                                                              BIC
                                                                                                                                                                                                                                             :DISABLE:TRANSMIT:AND:RECIEVE:
:...INTERRUPTS:
:TELL:XMIT THAT:ERROR:WAS:DETECTED:...
            558
                                               042763
                                                                       000100
                                                                                               000000
                                                                                                                                              BIC:
                                                                                                                                                                      #INT,R.CSR(R3)
#XMT,R0
            559
                       001116
001122
                                               012700
                                                                       000002
            560
561
                                                                                                                                              CALL
                                                                                                                                                                      SETERR
           562
563
                                                                                                                      : RETURN.TO.THE.CALLING.ROUTINE
                                                                                                                                                                                                                                                                                                                                                      44/4
           564 001126
565 001126
                                                                                                                       99$:
                                                                                                                                              RETURN
                                                                                                                                                                                                                                                                                                 Barrell W
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ACC HANDLE
                 MACRO Milia 27-MAR-80 13:32 PAGE 14
ROUTINE Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      567
                                                                         .SBTTL - FUNCT --- SUBROUTINE
      568
      569
      570
571
                                                                **--FUNCT:- PROCESS:NEW-MECEIVE:FUNCTION:REQUESTS:
                                                                THIS-ROUTINE-TAKES A-NEW-IZO REQUEST-FOR-AN-INPUT-FUNCTION AND PERFORMS-ONE-OF-THE-FOLLOWING-ACTIONS:
       572
       574
                                                                         1) NOTHING. THE RECEIVE INTERRUPT WILL RETURN THE FUNCTION WHEN IT IS INPUT.
      576
577
                                                                         2) IF-A-FUNCTIOH-IS-ALREADY-WAITING, IT-WILL-
IMMEDIATELY-BE-RETURNED-TO-THE-APPLICATION-TASK-
       578
      579
580
       581
                                                                         3) IF-A-FUNCTION-IS-WAITING-AND-IT-IS-A-RESTART-
REQUEST, AN-ERROR-WILL-BE-RETURNED-TO-THE-
APPLICATION-TASK-AND-AN-ERROR INTERRUPT
GENERATED FOR-THE-XMIT-SIDE,
       582
       584
       586
                                                                         R1 = ADDRESS · OF · THÉ · I / O · REQUEST · PACKET · R2 = PHYSICAL · UNIT · NUMBER · OF · THE · REQUEST · UCB · R3 = CONTROLLER · INDEX · R4 = ADDRESS · OF · THE · SCB · R5 = ADDRESS · OF · THE · UCB ·
       588
      589
590
      591
592
       594
      595
596
597
598
599
                                                                REGISTER USAGE:
                                                                         RØ IS-USED-FOR-SETTING UP-DATA-
R3->THE-FIRST-ACC-HARDWARE-ADDRESS
       600
                                                                OUTPUTS:
      601
602
                                                                         RØ AND R3 ARE DESTROYED
      603
604
      605
606
            001130
                                                             FUNCT:
      607 001130
608 001134
                        016403
                                    000000G
                                                                                     S.CSR(R4),R3
                                                                                                                         :R3->FIRST ACC HARDWARE ADDRESS
                                                             1$:
      689
      610
                                                               WAS AN EMERGENCY FUNCTION SENT BY THE UNIVAC
      612-001134
613 001142
                        032763
                                    010000 000000
                                                                         BIT.
                                                                                     #DPBF,R.CSR(R3)
                                                                                                                          ;FUNCTION INPUT OVER A DMA ?
                                                                                     2$
#IE.CNR.R0
                        001410
                                                                         BEQ.
      614
615
            001144
001150
                        012700
                                    000000G
                                                                                                                          :YES, RETURN ERROR
                                                                         CALL
                                                                                     IODONE.
      616 001154
617 001162
618 001164
                        042763
                                    010000 000000
                                                                                                                         :CLEAR THE BIT:
:GO PROCESS THE REST OF THE ERROR:
                                                                         BIC.
                                                                                     #DPBF,R.CSR(R3)
                        000525
                                                               {\tt IS+A+FUNCTION+WAITING+FOR+THE+I/O+PACKET+THAT+WAS+JUST+INPUT+?+}
      620
      622-001164 032763
623 001172-001534
                                    000200 000034
                                                                                     #FRFUC,MCR(R3)
                                                                                                                          :NO. RETURN, RCV-ISR WILL-HANDLE-
                                                                         BEQ.
                                                                                     90$
                                                   Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
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MACRO-M1110 27-MAR-80 13:32 PAGE 14-1
ACC HANDLER
FUNCT -- SUBROUTINE
                                             Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     624 001174
625 001200
                                                                 CALL
                                                                                                            ;YES, MAP-INTO-TASKS AREA;
;MOVE-36 BIT-INPUT-FUNCTION-INTO.;
;TASK:S-BUFFER-
                                                                           R.EF0(R3).(R0)+
R.EF1(R3).(R0)+
R.EF2(R3).(R0)
                     016320
                                000024
                                                                 MOV
     626
627
                     016320
016310
                                000022
          001204
          001210
                                                                 MOV
     628
          001214
                     012667
                                000000G
                                                                            (SP)+.KISAR6
                                                                                                            :RESTORE - THE - OLD - APR 6
     630
631
                                                           SET-UP RECEIVE-PACKING-MODE-BITS-(0.1 AND-2) IN-MCR
          001220
001222
                     010146
016300
                                                                                                            ;SAVE:R1
;R0 =:BITS 32-47
;R1 =:BITS 16-31
     632
                                                                 MOV
                                                                           R1,-(SP)
R:EFØ(R3),RØ
                                000024
                                                                 MOV
     634 001226
                     016301
                                000022
                                                                            R:EF1(R3),R1
                                                                                                            #RØ = TRANSACTION TYPE --
# -- BITS 30-35
#JUST TO MAKE SURE
#NO UHL BLOCKS
                                                                 ASHC
     636
637
          001236
                     042700
                                 177700
                                                                 BIC.
                                                                            #177700.R0
     638
          001242
                     005067
022700
                                 176549
                                                                 CLR
CMP
                                                                           MB.UHL
#5.R0
     639
          001246
                                000005
                                                                                                            :IF-NOT-QUERY.IGNORE UHL-
:IF-QUERY.SET-UHL-FLAG-
:R0 =-PACKING-MODE-
                                                                 BNE
MOV
     648
          001252
                     001003
                                                                            4$
     641
           001254
                     012767
                                           176524
                                                                            #-1, NB, UHL
                                000072
                                                                           PACK(R0),R0
#177400,R0
     642.001262
                      116000
                                                      4$:
                                                                 MOVB
     643
644
          001266
                                                                 BIC
          001272
001300
001304
                     042763
050063
     645
                                 000007
                                           000034
                                                                 віс
                                                                            #7,MCR(R3)
                                                                                                            CLEAR PREVIOUS PACKING MODE BITS
SET PACKING MODE BITS
     646
647
                                000034
                                                                           R0,MCR(R3)
(SP)+,R1
                                                                 BIS
                     012601
                                                                                                            ; RESTORE - R1
     649
          001306
                     042763
                                000200
                                           000034
                                                                 BIC.
                                                                            #FRFUC,MCR(R3)
                                                                                                            ;CLEAR.THE INPUT.NOTICE.BIT.
     650
                                                        GET-THE-DMA-BLOCK-COUNT-FROM THE-36 BIT-FUNCTION THAT-WAS-INFOT
     651
          001314
                     016300
042700
     653
                                000022
                                                                 MOV
                                                                            R.EF1(R3),R0
          001320
                                140000
177776
000000G
     654
                                                                            #140000.R0
#-2,R0
                                                                 RIC
     655
656
657
                     072027
010065
          001324
           001330
                                                                 MOV
                                                                            R0.U.CW3(R5)
                     005767
001410
           001334
                                 176446
                                                                            NB.UHL.
     658
          001340
                                                                                                            ;IGNORE IF UHL FLAG NOT SET
;CALCULATE UHL BLOCK SIZE;
; QUERY SIZE.
                                                                 BEQ
                                                                            5$
                                                                           R0.NB.UHL
R.EF2(R3).R0
#177400.R0
     659
          001342
                     010067
                                 176449
                                                                 MOV
                     016300
042700
           001346
                                000020
                                                                 MOV
                                177400
176424
     661
          001352
          001356
                      160067
                                                                 SUB
                                                                            R0.NB.UHL.
     663
     664
                                                        CHECK-TO SEE-IF-THE-INPUT-FUNCTION-WAS A-RESTART REQUEST
     665
          001362
001364
001370
     666
                                                      Ś$:
                                                                 SAVE
                                                                                                            :R0 = BITS 32-35
:R1 = BITS 16-31
:R0=INPUT FUNCTION (BITS 30-35)
     667
                     016300
                                000024
                                                                            R.EF0(R3),R0
                                                                 MOV.
     668
                     016301
073027
022700
                                000022
                                                                 MOV
                                                                            R.EF1(R3),R1
                                                                           #2,R0
#RSTRTC,R0
     669
          001374
                                000002
     670
          001400
                                000052
                                                                 CMP.
                                                                                                             RESTART REQUEST:
     671
          001404
                     001006
                                                                 BHE .
RESTOR
                                                                           3$
R1
                                                                                                            :NO-IT-WAS NOT-
          001406
     673
                                                                 MOV.
          001410
                     012700
                                000000G
                                                                            #IE:CHR,R0
                                                                                                            ;YES, RETURN AN ERROR
     674 001414
675 001420
                                                                            IODONE
                     000406
                                                                 BR
                                                                            50$
                                                                                                            :GO:PROCESS:THE:REST OF:THE:ERROR
     676
677
          001422
001424
                                                                 RESTOR
                                                                            R1
                     012700
                                                                            ⇔IS.SUC,R0
                              000000G
                                                                                                      GO RETURN TO BE LINE ROUTINE
                                                                 MOV
     678
679
680
          001430
                                                                 CALL
BR
                                                                            IODONE .
          001434
                     000415
                                                                            99$
                                             Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

**

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MACRO M1110 27-MAR-80 13:32 PAGE 14-2.
TINE Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
ACC · HANDL
FUNCT · --
                   ROUTINE
      681
682
683
                                                                  # AN-ERROR WAS-DETECTED. CAUSE-AN-ERROR INTERRUPT IN-ON-THE TRANSMIT; SIDE-OF-THE-HANDLER.
      683
684 001436
685 001436
686 001444
687 001456
688 001456
689 001456
690
691
692
693 001464
694 001464
                                                                  50$:
                          042763
                                                                              BIC.
BIC.
MOV.
CALL.
                                                                                            #INT.T.CSR(R3)
#INT.R.CSR(R3)
#XMT.R0
SETERR
                                       000100
000100
                                                    000010
                                                                                                                                   ;DISABLE · XMIT · AND · RCV · INTS.
                          042763
012700
                                                    000000
                                       000002
                                                                                                                                   :TELL :XMIT THAT : ERROR : WAS : DETECTED :
                          000402
                                                                               BR
                                                                                            99$
                                                                    DO-NOT-ALLOW-TIME-OUTS-FOR-RECEPTION-OF-FUNCTION WORDS-
                                                                 ;
90$:
      693 001464
694 001464
695
696
697
698
699
                          105064 000000G
                                                                               CLRB.
                                                                                                                                   CLEAR-TIME-OUT-COUNT: THIS:...
...INHIBITS THE-TIME-OUT...
...MECHANIZM.
                                                                                            S.CTM(R4)
                                                                  ; RETURN: TO: CALLING: ROUTINE:
       700 001470
701 001470
                                                                  99$:
                                                                               RETURN.
```

```
ACC:HANDLER: MACRO:M1118 27-MAR-88 13:32: PAGE 15
XMTINT ($ACOUT) -- ENTRY:POINT: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                                                                                                .SBTTL·XMTINT·(SACOUT) -- ENTRY POINT
            704
705
            706
707
                                                                                                                              **--XMTINT ($ACOUT) --- ENTRY POINT
             708
                                                                                                                             THE PURPOSE OF THE "XMTINT" ROUTINE IS TO HANDLE THE INTERRUPTS THAT RESULT FROM SENDING EITHER A:36 BIT STATUS WORD OR BLOCK OF WORDS (16 BIT) VIA THE DMA:
             710
711
712
                                                                                                                              THE . "XMTINT" ISR . HANDLES . TWO TYPES . OF . INTERRUPTS:
             713
714
715
716
717
                                                                                                                                               1) DMA DONE.
2) STATUS SENT.
                                                                                                                              INPUTS:
                                                                                                                                               AFTER-THE-CALL-TO-INTSV$ R4 CONTAINS-THE-CONTROLLER-INDEX-AND-R5 CONTAINS-A-POINTER-TO-THE UCB:
             719
720
                                                                                                                             REGISTER USAGE:
R4 AND R3 POINT TO THE FIRST ACC HARDWARE REGISTER:
R2 CONTAINS THE ADDRESS OF EITHER THE FRIST XMIT OR 金田
             721
722
             723
724
725
                                                                                                                                               RØ CONTAINS AN ERROR CODE WHEN "IODONE" IS CALLED:
             726
727
728
                                                                                                                             OUTPUTS:
                                                                                                                                               NONE
             729
730
             .
731
732-001472
                                                                                                                                                                                                                                             ENTRY POINT FOR THE EXECUTIVE
::INTERNAL ACC HANDLER ENTRY POINT
:::GET UCB ADDRESS
::GET UC
                                                                                                                        $ACOUT::
             733
                        001472
                                                                                                                        :THITMK
             734
                        001472
                                                                                                                                                INTSV$
                                                                                                                                                                        AC,PR5.A$$C11
             735
736
                        001476
                                                012704
                                                                       000002
000002
                                                                                                                                                                        #2,R4
                                                                                                                                               MOV
                        001502
                                               016405
016504
                                                                                                                                                MOV
                                                                                                                                                                        CHTBL (R4), R5
                       001506
001512
             737
                                                                        000000G
                                                                                                                                                                       U.SCB(R5),R4
S.CSR(R4),R4
#INT,T.CSR(R4)
                                                                                                                                                MOV
             738
                                                016404
                                                                       000000G
000100
                                                                                                                                                MOV
                        001516
001524
             739
                                                042764
                                                                                                                                               BIC
             740
                                                                                                                                               BIC-
CALL
                                                                                                                                                                       #INT.R.CSR(R4)
$FORK
                                                042764
                                                                        000100
                                                                                               000000
             741
742
                        001532
001536
                                                                                                                                                                      R4,R3
R4,R2.
#T.CSR,R2.
                                                010403
                                                                                                                                                MOV
                                               010402
062702
005767
             743
                        001540
                       001542
001546
                                                                        000010
                                                                                                                                               ADD
             745
                                                                        176314
                                                                                                                                                                        RSTADD
             746
                        001552
                                                001046
                                                                                                                                               BHE
                                                                                                                                                                                                                                                :YES
             747
             748
                                                                                                                                    IGNORE SPURIOUS INTERRUPT
                                                                                                                                                                                                                                                                                                         749
             750 001554
751 001560
                                               016504
105764
                                                                        000000G
                                                                                                                                                                       U.SCB(R5),R4
                                                                                                                                                                      S.STS(R4)
2$
                                                                                                                                                                                                                                               ; IF · UNIT · IS · NOT · ACTIVE,
                                                                       000000G
                                                                                                                                                TSTB
             752 · 001564
753
                                                001441
                                                                                                                                                                                                                                                    IGNORE · INTERRUPT
             754
                                                                                                                             CHECK TO SEE IF THERE WAS AN ERROR
             755
                                                                                                                                                                                                                                              SHOS THERE WAS NOTHER ERROR
            756 001566
757 001572
758
                                                                                                                                               CALL
                                                                                                                                                                       CKERR
                                               103005
                                                                                                     ANN-ERROR-WAS-DETECTED, INDUCE AN ERROR-INTO-THE-RCV-SIDE. Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
            759
```

```
ACC · HANDL
XMTINT · ($
                       MACRO M1110 27-MAR-80 13:32 PAGE 15-1 -- ENTRY POINT Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     760
761 001574
762-001600
763 001604
764
765
766
767 001606
                       012700
                                  ававав
                                                                      MOV
                                                                                  #RCV.R0
                                                                                                                    :TELL RCV THAT ERROR WAS DETECTED
                                                                     CALL :
                                                                                 SETERR
                       000437
                                                                                                                    ;GO-GET-ANOTHER-PACKET
                                                                NO⋅I/O ERRORS
                                  ивоваяс
                       016401
                                                                                 S.PKT(R4),R1
      768
769
770
771
           001612
001620
                       126127
                                   000001G · 000000C
                                                                      CMPB
                                                                                 I:FCN+1(R1),#IO:WLB/256.
                                                                                                                                : WLB - ?
                                                                     BNE BIT
                                                                                                                    :BRANCH IF NO
:DMA COMPLETED?
            001622
                       032763
                                   000200
                                              000010
                                                                                 #DMADON,T.CSR(R3)
            001630
     771 001630
772 001632
773 001640
774 001642
775 001646
777
778
779 001650
781 001660
782 001664
783
784 001670
785 001670
786 001676
                                                                     BOFF
BIT
                                                                                                                    :BRANCH IF NO
                       032763
                                   001000
                                                                                 #WCEZ, T.CSR(R3)
                                                                     BOFF
                       005365
                                   000000G
                                                                     DEC
                                                                                 U.CW3(R5)
                                                                                                                    ; DEC - OUTPUT - BLOCK - COUNT
                       000404
                                                                                 4$
                                                                                                                    :THEN.COMPLETE.I/O
                                                                FUNCTION COMPLETION ?
                       032763
                                                                                                                    ;FUNCTION-SENT?.
;BRANCH-IF NOT-YET.
;RETURN-GOOD-STATUS.
                                  100000
                                              000034
                                                          3$:
                                                                     BIT
                                                                                 #SSTU, MCR(R3)
                                                                                 2$
#IS.SUC,R0
                                                                     BON
                       012700
                                  000000G
                                                          4$:
                                                                      MOV
                                                                     CALL
                                                                                 IODONE.
                       052763
                                  000100
                                              000010
                                                                     BIS.
                                                                                 #INT,T.CSR(R3)
#INT,R.CSR(R3)
                                                                                                                    :ENABLE - INTERRUPTS -
                       052763
                                  000100
                                              000000
      787
788
                                                             GO-AND-SEE IF THERE ARE ANYMORE I/O-PACKETS TO BE PROCESSED FOR THIS
     789
790
791 001704
792 001704
                                                            (POINTED TO BY R5) UNIT.
                                                          ,
99$:
                       000167
                                  176286
                                                                     JMP
                                                                                 ACINI
```

```
ACC:HANDLER: MACRO:M1118 27-MAR-88 13:32: PAGE 16
RCVINT:($ACINP) -- ENTRY:POINT Approved For Release
                                                 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                        .SBTTL · RCVINT · ($ACINP) -- ENTRY POINT
      795
796
797
                                                              **--RCVINT ( $ACINP) --- ENTRY POINT
      798
      799
                                                              THE PURPOSE OF THE "RCVINT" ROUTINE IS TO SORT OUT FOUR TYPES OF
      800
                                                              RECEIVE · INTERRUPTS:
      801
                                                                       1) DMA-DONE,
2) FUNCTION-INPUT:
3) THE UNIVAC IS TRYING TO SEND A BLOCK OF DATA BUT NO 010 HAS BEEN ISSUED, AND
4) THE XMTINT ISR HAS GENERATED AN ERROR INTERRUPT:
      802
      804
      805
      806
807
      808
                                                              INPUTS:
                                                                       AFTER THE CALL TO INTSV$ R5 CONTAINS THE ADDRESS OF THE UCB
      809
      810
811
                                                             REGISTER USAGE:
RØ IS-USED-TO-PASS-ERROR-CODES-TO-"IODONE"
R5->UCB-
R3->FIRST-ACC-HARDWARE REGIESTER
      812
      815
816
817
818
                                                              OUTPUTS:
                                                                       HONE.
      819
820
      821
      822-001710
823 001710
                                                           $ACINP::
RCVINT:
                                                                                                                      :::ENTRY-POINT-FOR-RSX+11M-
                                                           001710
      824
      825
           001714
001716
      826
                        005004
      827
                        016405
                                   0000021
            001722
                        010046
016504
      829
      830
            001724
                                                                                                                      #ADDRESS-OF-OUR-
# FORK-PACKET-
#START-OF-FORK-QUEUE
#BRANCH-IF QUEUE-EMPTY-
#BRANCH-IF NOT-
                                    000000G
           001730
001734
      831
                        062704
                        016700
                                    000000G
                                                                       MOV
                                                                                   $FRKHD,R0
           001740
001742
001744
001744
      833
                        001407
                                                                       BEQ
                                                                                   ITSOK.
                        929994
                                                           15:
                                                                       CMP
                                                                                   R0.R4
      835
                        001003
                                                                       BHE
                                                                                  2$
(SP)+,R0
                                                                                                                      OUR ENTRY:
;WE'RE IN -
; DON'T DO IT AGAIN
      836
                        012600
                                                                       MOV
      837
            001750
                        000167
                                    000000G
                                                                       JMP
                                                                                   $INTXT
           001754
001756
                       011000
001371
      839
                                                                       MOV
                                                                                   (R0),R0
                                                                                                                      CONTINUE TO FND:
OF FORK QUEUE:
WE'RE NOT IN THE QUEUE
      840
                                                                       BNE
      841
            001760
                        012606
                                                            ITSOK:
                                                                       MOV
                                                                                   (SP)+,R0
            001762
                                   000000G
                       016504
016404
      843
                                                                                   U.SCB(R5).R4
                                                                                                                      :::R4->SCB
:::R4->FRIST-ACC-HARDWARE-REGISTER
:::DISABLE XMIT-AND-RCV-INTERRUPTS
           001766
001772
                                                                                  S.CSR(R4),R4
#INT,T.CSR(R4)
#INT,R.CSR(R4)
                                                                       MOV:
                                   000100 000010
000100 000000
      845
                       842764
      846
                       042764
                                                                       BIC
                                                                                                                      ### FORK TO AN INTERRUPTABLE PROUESS # R3-X### PROUESS ### ACC 孫為唐蒙斯皮埃尼亞達克克克克
      847
           002006
     848 002012
849
                                                                       MOV:
                                                                                   R4.R3
                                                  GHECK-TO SEE- IF-THERE-WAS-AN HARDWARE-ERROR-
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      850
```

```
ACC · HANDLE RCVINT · ($ NP)
                            MACRO: Miiii 27-MAR-80 13:32 PAGE 16-1
-- ENTRY: POINT Approved For Release 2
                                                           Арргоved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
       852-002014
                            010302
                                                                                     MOV
                                                                                                    R3,R2
                                                                                                                                              ;R2±>FRIST ACC-HARDWARE-REGISTER
;R2+>RCV-CSR-
;CHECK-FOR AN-HARDWARE-REGISTER-
       853
              002016
                                                                                     ADD.
CALL
                                                                                                   #R.CSR.R2
CKERR
                            062702 000000
       854 002022
       855
              002026
                             103006
                                                                                     BCC
                                                                                                                                              ; NO · ERROR ·
        856
        857
                                                                          \label{eq:error}  \textbf{ERROR} \cdot \textbf{DETECTED}. \quad \textbf{INVOKE} \cdot \textbf{AN} \cdot \textbf{ERROR} \cdot \textbf{IN} \cdot \textbf{THE} \cdot \textbf{XMIT} \cdot \textbf{SIDE} \cdot \textbf{OF} \cdot \textbf{THE} \cdot \textbf{HANDLER} \cdot \textbf{IF} \\ \textbf{THE} \cdot \textbf{RESTART} \cdot \textbf{FLAG} \cdot \textbf{IS} \cdot \textbf{NOT} \cdot \textbf{SET}.
       858
859
              002030
002034
        860
                            012700 000002
                                                                                     MOV-
                                                                                                    #XMT.R0
                                                                                                                                              :TELL XMIT THAT ERROR WAS DETECTED.
        861
                                                                                     CALL
JMP
                                                                                                   SETERR
99$
        862
              002040
                            000167
                                          000530
        863
       864
                                                                       : CHECK-TO SEE-IF-A-DMA-OR-FUNCTION-WAS-INPUT-
        865
              002044
       866
        867
               002044
                            032763 010000
                                                        000000
                                                                                     BIT
                                                                                                    #DPBF,R:CSR(R3)
                                                                                                                                              :FUNC OVERRODE THE DMA ?_
       868
              002052
                                                                                     BON.
                                                                                                    8$
                                                                                                                                              :BRANCH IF YES:
:FUNC INPUT ?
              002054
                            032763
                                          000200
                                                        000034
                                                                                                    #FRFUC,MCR(R3)
                                                                                     BIT
       870
              002062
                                                                                                                                                                                     202
                                                                                                                                              :YES
                                                                          DMA: WAS: INPUT: IF BIT:6 OF:THE:MCR:IS SET:IT:INDICATES:THAT:THE:UNIVAC:IS:TRYING:TO:SEND:A:DMA:BLOCK:BUT:THERE:IS:NO:ACTIVE:QIO:IF:THIS:IS:TRUE:IT IS:IGNORED:UNTIL:THE:TASK:ISSUES:A:QIO:
       872
        874
              002064
        876
                            032763
                                           000100
                                                         000034
                                                                       11$:
                                                                                                    #DA,MCR(R3)
                                                                                                                                              ; IS-BIT-SET?-
              002072
002074
                             001413
                                                                                                                                              ; NO. ; YES, NOW CLEAR THE BIT
                                                                                     BEQ
                                                                                                    3$
        878
                                           000100
                                                                                                    #DA,MCR(R3)
#INT,T.CSR(R3)
                                                         000034
                                                                                     BIC
BIS
                            042763
              002102
002110
                            052763
052763
        879
                                           000100
                                                                                                                                              :NOW ENABLE INTERRUPTS...
        880
                                           000100
                                                         000000
                                                                                     BIS
                                                                                                    #INT,R.CSR(R3)
                                                                                                                                              . . . .
              002116
002122
        881
                             000167
                                           000452
                                                                                     JMP
                                                                                                   99$
        882
                                                                       38:
       883 002122
884 002126
                                                                                     CALL
                            000167
                                          000442
                                                                                     JMP.
                                                                                                    99$
        885
                                                                          FUNCTION WAS INPUT. IF IT WAS A RESTART REQUEST AND THE HANDLER IS NOT IN THE RESTART MODE, THEN SET THE RESTART FLAG AND MOTIFY THE XMIT SIDE VIA N. INTERRUPT FROM BIT 13 OF THE XMIT CSR. IF WE ARE ALREAD IN A RESTART MODE, RETURN A BAD STATUS AND WAIT FOR A TASK TO CAUSE A RESTART.
        886
       887
888
       889
890
              002132
002136
       891
                                                                                     SAVE
                                                                                                    R0.R1
       892
                            016300
                                                                                                   R.EF0(R3),R0
R.EF1(R3),R1
#2,R0
                                           000024
                                                                                                                                              :R0 = BITS 32+35
:R1 = BITS 16-31
:R0=INPUT-FUNCTION (BITS 30-35)
                                                                                     MOV.
                            016301
073027
022700
              002142
002146
                                          000022
       893
                                                                                     MOV.
                                                                                     ASHC:
       895
896
              002152
002156
                                           000052
                                                                                     CMP
                                                                                                    #RSTRTC,R0
                                                                                                                                              :RESTART-REQUEST-?
                             001016
                                                                                     BHE
                                                                                                    5$
       897
              002160
                                                                                     RESTOR
                                                                                                    RØ. R1
       898 002164
899 002170
900 002174
901 002200
                                                                                                   #IE.CHR,RØ
                            012700
                                          000000G
                                                                                     MOV
                                                                                                                                              ;YES, RETURN ERROR STATUS
                                                                                     CALL
                                                                                                                                             : IS THE RESTART FLAG SET
:YES, GET READY TO EXIT
:TELL XMIT THAT ERROR WAS DETECTED
                            005767
                                                                                     TST.
                                                                                                    RESTRT.
                            001167
                                                                                     BNE
                                                                                                    31$
#XMT.R0
       902
903
              002202
002206
                            012700
                                           000002
                                                                                     CALL
                                                                                                    SETERR
       904 002212
                            000562
       905
                                                            GHECK-TO SEE-IF-WE HAVE A-RESTART ACKNOWLEDGEMENT. IF-NOT IT-IS-A-NORMAL: FUNCTION INPUT. THIS-INTERRUPT-ENTRY-POINT-CAN-GET-AN-EXTRA-RESTART ACK.

Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       986
       907
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ACC.HANDLER: MACRO.M1110 27-MAR-80 13:32: PAGE 16-2 RCVINT:($ACINP) -- ENTRY:POINT Approved For Release 2
                                                                              Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                                                THIS OCCURS WHEN BOTH THE UNIVAC AND PDP RESTART THE LINE AT THE SAME TIME.

THE PDP WILL RETURN A BAD STATUS TO THE APPLICATIONS TASK, THE TASK WILL

REINITIALIZE THE CHANNEL AND SEND ANOTHER RESTART REQUEST TO THE ONLY ACCOUNTY OF THE SEND OF T
          908
          909
          910
          912
913
          914
915
          916
917
                   002214
                                                                                                5$:
                  002214
002220
           918
                                      922799
                                                         000070
                                                                                                                                       #RACK,R0
                                                                                                                                                                                                : IS-THIS-A RESTART-ACK-?
          919
920
                                      001536
                                                                                                                   BED
                                                                                                                                      6$
                                                                                                                                                                                                :YES
                   882222
                                                                                                                   RESTOR -
                                                                                                                                      RØ.R1
           921
                   002226
                                      016504
                                                         999999G
                                                                                                                                     U.SCB(R5),R4
S.STS(R4)
                                                                                                                                                                                                :NO. R4->SCB:
:IS:THE:UNIT:BUSY:?
           922 - 002232 -
                                       105764
                                                          000000G
                                                                                                                   TSTB BEQ
                  002236
002236
002240
002244
002252
          923
924
                                       001520
                                                                                                                                                                                                :NO. WAIT-UNTIL QIO ISSUED
                                                         BRABBAG
                                      016401
                                                                                                                   MOV
                                                                                                                                      S.PKT(R4).R1
           925
                                                          000001G-000007
                                                                                                                                                                                               : :FUNCTION-?-
:BRANCH-!F NO:
:MAP.INTO-TASKS-FUNCTION-BUFFÉR.;
:MOYE-36 BIT-BUFFER:
                                                                                                                   CMPB -
                                                                                                                                      I.FCN+1(R1),#IO.RFC/256.
           926
                                                                                                                   BNE -
                                                                                                                                      11$
SETAPR
                                      001304
                  002254
002260
           928
                                                                                                                                     R.EF0(R3),(R0)+
R.EF1(R3),(R0)+
R.EF2(R3),(R0)
(SP)+,KISAR6
                                       016320
                                                          000024
                                                                                                                   MOV
          929 002264
930 002270
931 002274
                                      016320
016310
                                                         000022
000020
                                                                                                                   MOV
                                      012667
032763
                                                         000000G
010000 000000
                                                                                                                                                                                                :RESTORE - APR - 6
                                                                                                                   BIT
                                                                                                                                      #DPBF,R.CSR(R3)
                                                                                                                                                                                                ; IF · FUNCTION · OVER · WROTE · DMA
; NO ·
           933
                   002306
                                      001411
          934
935
                  002310
002314
                                      012700
                                                          000000G
                                                                                                                                      #IE:CHR,R0
                                                                                                                   MOV
                                                                                                                                                                                                :YES, REPORT ERROR
                                                                                                                   CALL
                                                                                                                                      IODONE
          936
937
                  002320
002324
                                      012700
                                                         000002
                                                                                                                                                                                                :INDUCE · ERROR · IN · XMIT · SIDE ·
                                                                                                                   MOV:
                                                                                                                                      #XMT.RØ
                                                                                                                                      SETERR-
                                                                                                                   CALL
           938
                   002330
                                      000513
                                                                                                                   BR
                                                                                                                                      31$
           939
          940
                                                                                                         SET-UP RECEIVE-PACKING-MODE-BITS (0.1 AND 2) IN-MCR
                                                                                                ä
          941
                   002332
                                      010146
                                                                                                10$:
                                                                                                                   MOV
                                                                                                                                                                                                :SAVE - R1
                                                                                                                                      R.EF1(R3).R0
R.EF1(R3).R1
                                                                                                                                                                                               R0 = BITS 32-47

R1 = BITS 16-31

:R0 = TRANSACTION TYPE -- V
          943
                  002334
002340
                                      016300
016301
                                                          000024
                                                                                                                   MÖV
                                                          000022
                                                                                                                   MOV
          945
                   002344
                                      073027
                                                          003002
                                                                                                                                      #2,R0
          946
                                                                                                                                                                                                : P BITS 30-35
: JUST TO MAKE SURE
           947
                   002350
                                      842788
                                                           177700
                                                                                                                   BIC
                                                                                                                                      #177700,R0
          948
                   002354
                                       005067
                                                                                                                   CLR
                                                                                                                                      NB.UHL.
                                                                                                                                                                                                SHOW NO UHL
          949
                   002360
                                       022700
                                                          000005
                                                                                                                   CMP
                                                                                                                                       #5.R0
                  002364
002366
          950
                                       001003
                                                                                                                   BNE
                                                                                                                                                                                               4$
           951
                                                          177777
000072°
                                      012767
                                                                            175412
                                                                                                                   MOV
                                                                                                                                       #-1,NB.UHL
                                                                                                                                      PACK(RØ).RØ
          952
                   002374
                                        116000
                                                                                                                   MOVB
          953
954
                   002400
                                       042700
                                                          177400
                                                                                                                   BIC.
                                                                                                                                      #177400,R0
                  002404
002412
002416
                                      042763
                                                          000007 000034
                                                                                                                  BIC
                                                                                                                                      #7.MCR(R3)
R0.MCR(R3)
                                                                                                                                                                                               :CLEAR:PREVIOUS:PACKING:MODE:BITS:
:SET:PACKING:MODE:BITS:
:RESTORE:R1
                                      050063
012601
          956
                                                                                                                  MOV
                                                                                                                                      (SP)+_{*}R:
          958
          959
                   002420
                                      012700
                                                         000000G
                                                                                                                  MOV-
                                                                                                                                      ⇔IS.SUC,RØ
IODONE:
                                                                                                                                                                                                :RETURN-GOOD-STATUS
          960 002424
                                                                                                                   CALL
          961
          962
                                                                                                                                                                                                      GET-THE-INPUT-BLOCK-COUNT-
                                                                                 MOV R.EF1 (R3) .R0 :GET-THE-WORD-THAT-CONTAINS-THE-FIELD
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
          964 002430 016300 000022
```

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27-MAR-80 13:32 PAGE 16-3
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
ACC HANDLE
RCVINT ($
                      MACRO-M1110 27
-- ENTRY-POINT
     965 002434
                      842788
                                 140000
                                                                  BIC
                                                                             #140000,R0
                                                                                                              :MASK-OFF-GARBAGE
     966
967
          002440
002444
                      072027
                                                                                                              *RIGHT JUSTIFY:

*SAVE IT IN THE BLOCK COUNT:

*UHL FLAG SET ?

*BRANCH IF NO
                                                                  ASH.
                                                                             #-2,R0
R0,U.CW3(R5)
                                 000000G
                      010065
                                                                  MOV
     968
969
          002450
002454
                                 175332
                                                                             NB.UHL.
                                                                  TST
                      001433
                                                                  BEQ
                                                                             30$
     970
971
          002456
002462
                      010067
                                                                             00⊅
R0,NB,UHL
R.EF2(R3),R0
#177400,R0
                                                                                                              MOV
                      016300
042700
                                                                  MOV
BIC
                                 000020
     972
973
          002466
                      160067
                                                                  SUB
BR
                                 175310
                                                                             R0.NB.UHL
      974
           002476
                      000422
                                                                             30$
      975
     976
977
                                                         ENABLE - INTERRUPTS
          002500
002500
      978
                                                       7s:
                      052763
052763
      979
                                 000100
                                            ававав
                                                                  BIS.
     980
981
           002506
                                 000100
                                            000010
                                                                             #INT, T.CSR(R3)
           002514
                      000427
                                                                  BR
     982
983
984
                                                         PROCESS: A: RESTART: ACKNOWLEDGEMENT
      985
           002516
                                                                            R0.R1
RESTRT
30$
                                                       6$:
                                                                  RESTOR
TST:
     986
987
           002522
002526
                      005767
001406
                                 175336
                                                                                                              ; IS THE RESTART FLAG SET ? ; NO. IGNORE THE ACK
                                                                  BEO
     988 002530
                      012700
                                 000000G
                                                                  MOV
                                                                             #IS.SUC,R0
                                                                                                              :YES, RETURN-GOOD-STATUS
     989
           002534
                                                                  CALL
                                                                             IODONE
     990
991
992
993
           002540
                      005067
                                 175320
                                                                  CLR
                                                                             RESTRT
                                                                                                              ;SHOW-WE-ARE-NOT-IN-RESTART-MODE
          002544
002544
002552
                                                       30$:
                                                                             #INT,T.CSR(R3)
#INT,R.CSR(R3)
     994
                      052763
                                 000100
                                            000010
                                                                  BIS
                                                                                                              :ENABLE · XMIT · INTERRUPT · :ENABLE · RCV · INTERRUPT ·
      995
                      052763
                                 000100
                                            000000
                                                                  BIS
     996
997
998
          002560
002560
                      042763
                                 000200
                                            000034
                                                                  BIC
BIC
                                                                             #FRFUC,MCR(R3)
                                                                                                              :CLEAR · FUNCTION · INPUT · BITS
           002566
                      042763
                                 010000
                                            000000
                                                                             #DPBF,R.CSR(R3)
    1000
                                                       : RETURN
     1001
           002574
    1002
                                                       99$:
    1003
           002574
                      000167
                                 175316
                                                                  JMP.
                                                                             ACINI
```

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ACC · HANDLER
                  MACRO-M1110 27-MAR-80 13:32 PAGE 17
DMA --- SUBROUTINE
                                        Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
   1005
                                                         .SBTTL DMA -- SUBROUTINE.
   1006
   1997
                                                 **--DMA-SUBROUTINE
   1009
   1010
1011
                                                 THE PURPOSE OF THE DMA ROUTINE IS TO PROCESS DMA RECEIVE INTERRUPTS.
   1012
1013
                                                        R3->FIRST ACC HARDWARE REGISTER
R4->FIRST ACC HARDWARE REGISTER
   1014
1015
   1016
                                                 REGISTER USAGE:
RØ CONTAINS ERROR CODES.
   1017
   1018
1019
   1020
                                                 OUTPUTS:
    1021
                                                        NONE
   1022
   1024
    1025
         002600
                                               DMA:
   1026 002600
1027 002604
                  016504
105764
                            000000G
                                                         MOV
                                                                  U.SCB(R5),R4
                                                                  S.S.
                            000000G
                                                         TSTB
                                                                    STS(R4)
                                                                                               ; IF · THE · UNIT · IS · NOT · ACTIVE,
   1028-002610
1029-002612
                  001442
016401
                                                         BEQ.
                                                                                                 IGNORE SPURIOUS INTERRUPT.
                            000000G
                                                                  S.PKT(R4),R1
                                                         MOV
                  126127
001034
                                                                                              1030 002616
                            000001G 000000C
                                                         СМРВ
                                                                  I.FCN+1(R1),#IO.RLB/256.
         002624
                                                                  99$
#DMADON,R.CSR(R3)
                                                        BNE -
   1032-002626
1033-002634
                  032763
                            000200
                                     000000
                                                         BOFF
                                                                  99$
   1034 002636
1035 002644
                  032763
                            001000
                                                                  #WCEZ,R.CSR(R3)
                                                         BIT
                                                                  99$
#IS.SUC,R0
   1036 002646
1037 002652
                  012700
                            000000G
                                                         MOV.
                                                                  CALL
                  042763
   1038 002656
1039 002664
                            001200 000000
                                                         BIC
                  005365
                                                        DEC:
                            000000G
        002670
002672
   1949
                  001412
   1041
                  026567
                            000000G-175106
                                                         CMP
   1042-002700
1043-002702
1044-002710
1045-002716
                  001006
                                                         BNE.
                            000007
                  042763
                                     999934
                                                        BIC
BIS
                                                                  #7,MCR(R3)
                                                                                               :YES: CHANGE PACKING MODE
                  052763
                            000004
                                                                  #4.MCR(R3)
                                     000034
                                               99$:
                  052763
052763
   1046 002716
1047 002724
                            060100
000100
                                     000010
                                                         BIS.
                                                                  #INT.T.CSR(R3)
                                                                                               ; ENABLE · INTERRUPTS
                                     ививий
                                                         BIS
                                                                  #INT.R.CSR(R3)
   1048 002732
                                                         RETURN
```

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ACC HANDLE
POWER FAI
                         MACRO-M1110 27-MAR-80 13:32 PAGE 18
ENTRY-POINT- Approved For Release
                                                              Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
      1050
                                                                                        .SBTTL - POWER - FAIL -- ENTRY POINT
      1050
1051
1052
1053
1054
1055
1056
                                                                            THE PURPOSE OF THIS ENTRY POINT IS TO RESET THE INTERFACE AND LOAD CNTBL WITH VALID UCB ADDRESSES:
                                                                             INPUTS:
      1057
1058
1059
1060
                                                                                       R5->UCB
R4->SCB
R3-CONTROLLER INDEX
                                                                            REGISTER USAGE:
RØ->FIRST-ACC-HARDWARE REGISTER:
      1061
1062
      1063
      1064
1065
                                                                            OUTPUTS:
                                                                                       NONE
       1066
      1067
1068
      1068
1069 002734
1070 002734
1071 002740
1072-002746
1073 002752-
1074 002756
                                                                         POWER:
                                            000000G
                                                                                       MOV:
BIS:
CLR:
MOV:
                                                                                                     S.CSR(R4),R0
#RESET,T.CSR(R0)
U.CW3(R5)
R5,CNTBL(R3)
                                                                                                                                                 :R0->FIRST ACC HARDWARE REGISTER:
:RESET:THE INTERFACE
:RESET:THE DMA-BLOCK COUNT:
:PUT-UCB-ADDR:INTO-CNTBL:
                             016400
                                           000004 000010
000000G
                             052760
005065
                             010563
                                            0000021
                                                                                       RETURN.
```

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ACC HANDLER: MACRO M1110 27-MAR-80 13:32 PAGE 19
TIME OUT -- ENTRY POINT: Approved For Release
                                                      Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     1076
1077
                                                                              .SBTTL - TIME OUT -- ENTRY POINT
     1978
                                                                    THE TIME OUT ENTRY POINT IS CALLED AFTER AN EXCESSIVE AMOUNT OF TIME HAS EXPIRED IN A DMA OR SEND STATUS DERATION. ONLY RECEIVE DMA DEFRATIONS ARE TIMED. NOTHING IS DONE FOR THE RECEPTION OF FUCHTION WORDS BECAUSE ONE CANNOT PREDICT WHEN TRANSACTIONS ARE TO BE INITIATED BY THE HOST.
     1079
     1080
     1081
1082
     1083
1084
                                                                    INPUT:
                                                                             :
RØ = : I/O : STATUS : CODE : IE ; DNR :
R2=ADDRESS : OF : CSR :
R3=CONTROLLER : INDEX :
R4=ADDRESS : OF : THE : SCB :
R5=ADDRESS : OF : THE : UCB :
     1085
     1886
     1087
     1088
     1090
     1091
                                                                    REGISTER USAGE:
RØ CONTAINS:ERROR:CODES
     1092
     1094
     1095
                                                                    OUTPUTS:
     1096
                                                                             NONE
     1097
1098
     1099
            002760
                                                                 TIMOUT:
     1101 002760
1102 002764
                          005767
                                       175104
                                                                              TST
                                                                                          LOOPB.
                                                                                                                                 001006
                                                                             BIC
                                                                                          3$
#INT,T:CSR(R2)
     1103 002766
1104 002774
                          042762
                                       000100
                          042762
                                       000100
                                                   000000
                                                                             BIC
                                                                                           #INT.R.CSR(R2)
     1105 003002
1106 003002
1107 003006
                                                                 3$:
                         005065
                                       000000G
                                                                             CLR.
                                                                                          U.CW3(R5)
U.UNIT(R5)
                                                                                                                                 :RESET:THE DMA:BLOCK COUNT::
:WHICH:UNIT:?:
                          105765
001405
                                       000000G
                                                                              TSTB.
     1108 003012
                                                                                                                                 RECEIVE:
TELL-RCV-THAT-ERROR WAS-FOUND
                                                                             BEQ.
MOV.
                                                                                          1 $
     1109 003014
1110 003020
                         012700
                                       000000
                                                                                           ⊕RCV,RØ
                                                                             CALL -
BR
                                                                                          SETERR -
                         000404
     1111
            003024
     1112-003026
1113 003026
                                                                 1$:
            003026
                         012700
                                                                             MOV.
CALL.
                                                                                          #XMT,RØ
SETERR
                                      000002
                                                                                                                                 ;TELL XMIT THAT ERROR WAS FOUND
     iii4 003032
1115 003036
                                                                 2$:
     1116 003036
1117 003042
                         012700
                                                                              MOV.
                                       000000G
                                                                                           #IE.TMO,RØ
                                                                                                                                 :RETURN · ERROR · CODE · TO · TASK
                                                                             CALL
JMP·
     1118 003046
                         000167
                                       175044
                                                                                          ACINI:
                                                                                                                                 :GO GET ANTHER PACKET
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ACC HANDL
                  MACRO M1110 27-MAR-80 13:32 PAGE 20
TRY POINT: Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
CANCEL -
                                                                             .SBTTL GANCEL --- ENTRY POINT.
     1121
1122
     1123
1124
                                                                  THE PURPOSE OF THE CANCEL ENTRY POINT IS TO KILL ON GOING I/O'S.

THE CURRENT I/O IS KILLED AND AN ERROR INTERRUPT IS SET TO CAUSE.

THE OTHER SIDE OF THE HANDLER TO ABORT ANY ACTIVE I/O IT MAY HAVE.
     1125
     1126
1127
     1128
                                                                            s:
R5->UCB:
R4->SCB:
R3-CONTROLLER:INDEX:
R1->TCB:OF:CURRENT:TASK:
R0->ACTIVE:I/O:PACKET:
     1130
1131
1132
     1133
1134
                                                                  REGISTER USAGE:
R3->FIRST-ACC-HARDWARE REGISTER-
     1135
1136
1137
1138
                                                                  OUTPUTS:
                                                                            NONE -
     1139
1140
     1141
1142-003052
                                                               CANCEL:
                                                                                                                               1143 003052
1144 003056
                         016403
                                      000000G
                                                                            MOV
                                                                                         S.CSR(R4),R3
                                                                                        S.CTM(R4), R5
S.CTM(R4)
#IHT, T.CSR(R3)
#IHT, R.CSR(R3)
#IE.ABO, R0
                         105064
                                      000000G
                                                                            CLRB
BIC-
                                                                                                                               CANCEL ANY TIME OUT
DISABLE ACC INTERRUPTS
     1145 003062
1146 003070
                         042763
042763
                                                                            BIC
MOV
                                      000100
                                                  000000
     1146 003070
1147 003076
1148 003102
1149 003106
1150 003112
1151 003116
                         012700
                                                                                                                               RETURN ABORT STATUS TO TASK
                                                                            CALL
                                                                                         IODONE:
U.CW3(R5)
                         005065
                                                                                                                               RESET THE DMA BLOCK COUNT ....
                                      000000G
                          105765
                                      000000G
                                                                            TSTB
                                                                                                                               ; IS-THE-A-RCV-OR-XMIT-UNIT
; A-XMIT-UNIT-
                                                                                         U.UNIT(R5)
                         001005
                                                                            BHE
                                                                                         1$
#XMT.R0
     1152-003120
1153-003124
1154-003130
1155-003132
                         012700
                                      000002
                                                                                                                               :TELL :XMIT THAT : AN : ERROR : WAS : FOUND :
                                                                            CALL
                                                                                         SETERR.
                         000404
                                                                            BR
                                                                                         99$
                                                               1$:
     1156
1157
            003132
003136
                         012700
                                      000000
                                                                            MOV
                                                                                         #RCV.RA
                                                                                                                               :TELL - RCV - THAT - AN - ERROR - WAS - FOUND -
                                                                            CALL
                                                                                         SETERR
     1158 003142
                                                               99$:
     1159 003142
                         000167
                                     174750
                                                                            .IMP
                                                                                         ACINI-
                                                                                                                               :GO SEE IF THERE ARE ANY MORE PACKETS
                                                                                                                                                             \mathcal{A}_{\infty}
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ACC HANDLER 1
CKERR -- ROUTINE
                     MACRO-Mill0 27-MAR+80 13:32 PAGE 21
                                              Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
    1161
1162
1163
1164
                                                                 .SBTTL - GKERR --- ROUTINE
                                                         THE PURPOSE OF THE GKERR ROUTINE IS TO CHECK ERROR BITS IN A GIVEN
    1165
1166
1167
1168
1169
                                                         CSR:
                                                         INPUTS:
                                                                 R5->UCB
                                                                 R2->CSR
    1171
1172
                                                         REGISTER USAGE:
                                                                 RØ PASSES ERROR CODES TO "IODONE"
    1174
                                                         OUTPUTS:
                                                                 NONE -
    1175
1176
1177
1178
1179 003146
1180 003146
1181 003152
1182 003154
1183 003154
                                                      ĆKERR:
                      032712 004000
                                                                 BIT
                                                                                                             ; IS: THERE: A: PARITY: ERROR: ?
                                                                            #PARITY, (R2)
                                                                            1$
#IE:VER,R0
IODONE
                      001410
                                                                 BEQ
                                                                                                             : NO.
                                 000000G
                                                                 MOV
                                                                                                             ;YES, RETURN ERROR STATUS.
     1183 003160
                                                                 CALL
CLR
    1184 003164
1185 003170
                      005065
                                000000G
                                                                            U.CW3(R5)
                                                                                                            CLEAR THE DMA BLOCK COUNT; SET ERROR RETURN
                      000261
                                                                 SEC
BR
                                                                                                                                                                           -1110
    1186
1187
          003172
003174
                      000426
                                                      1$:
    1188 003174
1189 003200
                      032712
                                060000
                                                                 BIT-
                                                                            #<NEMR+UNVCR>,(R2)
                                                                                                             :COMPOSIT-ERROR-BIT-SET-?
                      001002
                                                                 BHE -
    1190 003202
1191 003204
                                                                 CLC
                                                                                                             :NO. GIVE-NO-ERROR-RETURN
                      000421
                                                                 \mathsf{BR}
                                                                            99$
    1192 003206
1193 003206
                                                      2$:
                     032712·
001405
                                040000
                                                                            #NEMR, (R2)
                                                                                                             :MEMORY-ADDRESSING-ERROR-?-
    1194 003212
1195 003214
1196 003220
                                                                 BEQ
MOV
                                                                            3$
#IE.SPC.R0
                                                                                                            ;NO:
;YES, RETURN ERROR.
          003214
003220
003224
                      012700
                                000000G
                                                                 CALL
                                                                            IODONE.
    1197
                     000404
     1198 003226
                                                      3$:
                                                                                                                                                                           13
     1199 003226
                     012700
                                000000G
                                                                 MOV.
                                                                            #IE.CHR,R0
    1200 003232
1201 003236
                                                                 CALL
                                                                            IODONE -
                                                      50$:
     1202-003236
                                                                 BIC.
                                                                            #KNEMR+UNVCR>,(R2)
U.CW3(R5)
                                                                                                            CLEAR-THE ERROR-BITS-
RESET-THE DMA-BLOCK COUNT
SET-ERROR RETURN-
    1203 003242
                                                                 CLR.
                      005065
                                000000G
    1204 003246
1205 003250
                      000261
                                                      99$:
    1206 003250
                                                                 RETURN-
```

But the "#

```
ACC - HANDL
                          MACRO Milio 27-MAR-80 13:32 PAGE 22
                                                        Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
SETAPR -
     1208
                                                                                .SBTTL SETAPR --- ROUTINE
     1209
     1210
                                                                     **--SETAPR ROUTINE
     1213
                                                                     THE PURPOSE OF THE SETAPR ROUTINE IS TO CONVERT A PHYSICAL ADDRESS
     1214
1215
                                                                     TO A VIRTUAL ADDRESS.
     1216
1217
1218
1219
                                                                     INPUTS:
                                                                               R5->UCB
                                                                     REGISTER USAGE:
      1220
                                                                               R0 IS-USED-FOR-WORKING STORAGE-AND-IS-DESTROYED-
R1 IS-USED-FOR-WORKING STORAGE-AND-IS-RESTORED-
     1221
1222
1223
     1224
1225
                                                                               RØ CONTAINS:THE:VIRTUAL:ADDRESS:OF:THE:USER:BUFFER:
APR:6 IS:REMAPPED:TO:THE:TASK:S:AREA:
(SP) CONTAINS:THE:OLD:APR:6 VALUE:
     1226
1227
     1228
     1229
1230 003252
                                                                  SETAPR:
             003252
                          011646
                                                                                            (SP),-(SP)
R1,-(SP)
                                                                               MOV
                                                                                                                                    :MAKE-ROOM FOR-THE-OLD-APR-6
                                                                                                                                   :MAKE-ROOM FOR-THE-OLD-APR-6
:SAVE-R1
:MOV-UPPER 2-BITS-OF 18 BIT-ADDR-
:GET-RID-OF-GARBAGE-
:RIGHT-JUSTIFY-BITS-18 AND-17
:GET-LOWER ORDER-16 BITS-OF-ADDR-
:CONVERT-TO-32-WORD-APR-ADDRESS-
:SAVE-THE-OLD-APR-6
:PUT-THE-NEW-VALUE-INTO-APR-6
:GET-LOWER ORDER-16 BITS-
:MASK-OFF-UPPER-10 BITS-
:SETUP-FOR APR-6
:RESTORE-R1
                          010146
016500
     1232 - 993254
                                                                               MOV
             003256
                                       000000G
                                                                               MOV
                                                                                            U.BUF(R5),R0
#177717,R0
     1234
                          042700
072027
                                       177717
177774
             003262
                                                                               BIC
      1235
             003266
                                                                                            #-4,R0
U.BUF+2(R5),R1
                                                                               ASH.
     1236
             003272
                          016501
073027
                                       000002G
                                                                               MOV
     1237
1238
            003276
                                                                               ASHC
                                                                                            #-6.R0
                                       000000G 000004
                          016766
                                                                                            KISAR6,4(SP)
     1239
             003310
                          010167
                                       000000G
                                                                                            R1.KISAR6
U.BUF+2(R5),R0
                                                                               MOSZ.
     1240 003314
                          Ø16500
                                       000002G
                                                                               MOV
     1241
             003320
                          042700
                                        177700
                                                                                            #177700,R0
#140000,R0
                                                                               BIC
     1242
1243
             003324
                          052700
                                        140000
                                                                               BIS.
                          012601
                                                                               MOV
                                                                                            (SP)+.R1
     1244 003332
                                                                               RETURN
```

.

```
ACC HANDLER : MA
IODONE :-- ROUTINE :
                           MACRO M1110 27-MAR+80 13:32 PAGE 23
                                                          Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
      1246
1247
1248
1249
1250
                                                                                   .SBTTL - IODONE --- ROUTINE -
                                                                        **--IODONE ROUTINE
     1251
1252
1253
1254
1255
                                                                        THE PURPOSE OF THIS ROUTIEN IS TO SEND AN IZO DONE STATUS BACK TO THE APPLICATION TASK VIA THE EXECUTIVE. THIS IS DONE ONLY IF THERE IS AN ACTIVE IZO FOR THE DESIRED UNIT:
                                                                         INPUTS:
      1256
1257
                                                                                   R5->UCB
                                                                                   R0=ERROR · CODE
      1258
1259
                                                                        REGISTER USEAGE:
      1260
1261
1262
1263
                                                                        OUTPUTS:
                                                                                   NONE
      1264
1265
      1266
1267
              003334
                                                                      ÍODONE:
      1268
1269
             003334
003336
                            010346
                                                                                   MOV
                                                                                                 R3_{2} - (SP)
                                                                                                                                          ;SAVE.R3 - R5
                                                                                                R3.-(SP)
R4.-(SP)
R5.-(SP)
RSTADD:
1$
RSTADD.R5
                                                                                   MOV
MOV
TST
                            010446
      1270 003340
1271 003342
                            010546
                                                                                                                                          : IS: THE: RESTART: ADDRESS: ZERO: ?
:YES:
:RS=>RESTART: UCB:
:SEMD: STATUS:
:CLEAR: THE RESTART: ADDRESS: 3
                            005767
                                          174520
     1272-003346
1273-003350
1274-003354
1275-003360
                           001407
016705
                                                                                   BEQ.
                                          174512
                                                                                   MOV.
CALL
                            005067
                                          174502
                                                                                   CLR -
                                                                                                 RSTADD.
      1276
1277
      1276 003364
1277 003366
1278 003366
                            000407
                                                                                   BR
                                                                                                 99$
                                                                     1$:
                           016504
105764
                                                                                                 U.SCB(R5),R4
S.STS(R4)
99$
                                         ийийийи.
                                                                                   MOV-
      1279 003372
1280 003376
                                         000000G
                                                                                   TSTB
                                                                                                                                          : IS . THE . UNIT . ACTIVE . ? .
                            001402
                                                                                                                                          : NO -
      1281 003400
                                                                                   CALL
                                                                                                 $IODOH-
                                                                                                                                          :YES, RETURN STATUS
      1282 003404
                                                                     99$:
      1283 003404
1284 003406
                           012605
012604
                                                                                                 (SP)+,R5
(SP)+,R4
(SP)+,R3
                                                                                   MOV.
                                                                                                                                          ;RESTORE R3 - R5
                                                                                   MOV.
      1285 003410
1286 003412
                           012603
                                                                                   RETURN.
```

73271 1194.5

1

```
ACC HANDL
                            MACRO-Mili0 27-MAR-80 13:32 PAGE 24
                                                           Approved For Release 2005/07/20 CIA-RDP85-00514R000100030001-3
                      JT INE
      1288
                                                                                     .SBTTL SETERR --- ROUTINE
      1289
1290
      1291
1292
                                                                          **--SETERR ROUTINE
                                                                          THE PURPOSE OF THIS ROUTINE IS TO SET A TIME OUT IN THE OTHER UNITS SCBT THIS IS DONE IF AN ERROR IS ENCOUNTERED IN THE CURRENT UNIT. THE ERROR TIME OUT IS SET ONLY IF THE OTHER UNIT HAS AN ACTIVE I \neq 0
      1293
      1294
      1295
1296
1297
                                                                          INPUTS:
      1298
1299
                                                                                    RØ CONTAINS: THE: OFFSET INTO: "CNTBL" FOR: THE: CORRECT: UCB
                                                                         REGISTER USAGE:
R4 AND R5 ARE SAVE AND RESTORED: R4->SCB, AND R5->UCB-
OF THE OTHER UNIT.
      1300
      1301
      1303
      1304
                                                                          OUTPUTS:
      1395
                                                                                    NONE
      1306
1307
      1308
      1309 003414
1310 003414
                                                                      SETERR:
                            010546
                                                                                    MOV
                                                                                                  R5.-(SP)
R4.-(SP)
                                                                                                                                             :SAVE R5 AND R4
                            010446
005267
      1311 003416
                                                                                    MOV
      1312-003420
                                                                                                  RESTRT.
CNTBL(R0).R5
U.SCB(R5).R4
S.STS(R4)
                                           174440
                                                                                     INC
                                                                                                                                             :SET - THE - RESTART - FLAG
      1312 003428
1313 003424
1314 003430
1315 003434
1316 003440
1317 003442
                                                                                                                                            #SET-THE RESTART FLAG

#R5->OTHER UNITS UCB

#R4->OTHER UNITS SCB

#IS-THE-OTHER-UNIT-BUSY-?

#NO, DO-NOTHING

#SET-TIME-OUT-TO-OCCUR-WITHIN-

#ONE-SECOND-

#RESET-THE DMA-BLOCK COUNT-
                            016005
016504
                                          000002'
                                                                                     MOV
                                                                                    MOV:
TSTB
BEQ:
                            105764
001405
                                          000000G
                                                                                                   99$
                            112764
                                          000001 000000G
                                                                                     MOVB
                                                                                                   #1.S.CTM(R4)
      1318
1319
     1318
1319 003450
1320 003454
1321 003454
1322 003456
1323 003460
                            005065
                                          000000G
                                                                                    CLR
                                                                                                   U:CW3(R5)
                            012604
                                                                                                   (SP)+.R4
(SP)+.R5
                                                                                    MOV
                                                                                                                                            :RESTORE R4 AND R5
                            012605
                                                                                    MOV
                                                                                    RETURN
      1324
                            000001
                                                                                    .END
```

```
ACC:HANDLER
                           MACRO Miii 27-MAApproved:ForRelease-2005/07/28: CIA-RDP85-00514R000100030001-3
SYMBOL TABLE
ACINI:
             000116R
                                                                                 IO.EOF=-003000
IO.FDX=-003020
                                        D$$L11= . 000004
                                                                                                                         IO:RWD= 002400
                                                                                                                                                                  L$$P11=.000001
 A$$CHK= 000000
                                         D$$SHF=.000000
                                                                                                                          IO.RWU= 002540
IO.RIC= 002400
                                                                                                                                                                  MC -
                                                                                                                                                                               000036
                                                                                                                                                                                                    00a
A⇒$CPS=.000000
                                         D$$YNC= · AAAAAA
                                                                                 IO.FLN= 012400
IO.GLC= 016430
                                                                                                                                                                  MCR
                                                                                                                                                                               000034
                                                                                                                                                                                                    004
A$$C11= 000002
A$$NSI= 000000
                                         D$$YHM=
                                                      000000
                                                                                                                                                                                                          5.82
                                                                                                                         IO.SAO= 004000
IO.SCS= 013000
IO.SDI= 013000
IO.SDO= 012400
                                                                                                                                                                   M$$CRB=
                                                                                                                                                                               000124
                                        EA16
EA17
                                                      000020
                                                                                 IO.GLI= 016420
IO.GNI= 016410
                                                                                                                                                                  M$$CRX=
                                                                                                                                                                               равава
H$$PRI= · AAAAAA
                                                                                                                                                                  M$$FCS= 000000
M$$MGE= 000000
 H$$TRP=
              000000
                                        EssXPR=
                                                                                 IO.GRC= 016450
IO.GRI= 016440
                                                      ававава
BBPDP - = - 0000004
                                         FD.FID
                                                      000000
                                                                                                                          IO.SEC=-002520
IO.SLO=-005400
                                                                                                                                                                  M$$MUP = -
                                                                                                                                                                               000000
 BBUNVC= 000010
                                         FD.FNB
                                                                                 IO.GRN= 016468
IO.GTS= 002400
                                                      000006
                                                                          003
                                                                                                                                                                  M$$0VR = . 000000
 BITYAL= 000000
                                         FD:FVR
                                                      000004
                                                                                                                          IO.SMO= 002560
                                                                                                                                                                 NB.UHL.
                                                                                                                                                                               000012
 BIT0
                                         FD.LEN
              000001
                                                                                 IO.HDX= 003010
IO.HIS= 015000
                                                                                                                          IO.SPB=-002420
IO.SPF=-002440
                                                      ававта
                                                                                                                                                                               имимин в
                                        FREUC -
BITL
             0000002
                                                      000200
                                                                                                                                                                  NEMR = 040000
N$$LDV= 000001
                                                      001130R
                                                                                  IO.HNG= 003000
                                                                                                                          IO.SPW- 016510
                                         F$$LVL=-000001
G$$TPP=-000000
 BITII
             004999
                                                                                  IO.INI= 014400
                                                                                                                                                                  N$$MOV= 000041
N.BFAC= 000004
                                                                                 IO.INI = 014400
IO.INL = 002400
IO.ITI = 017000
IO.LDI = 007000
IO.LED = 012000
IO.KE = 012000
IO.KE = 014000
IO.LOD = 014000
                                                                                                                          IO.SSO= 00440P
              010000
                                                                                                                          IO.STA= 015400
BIT13
              020000
                                         G$$TSS=
                                                     000000
                                                                                                                          IO.STC= 002500
IO.STP= 016400
IO.SYN= 003040
                                                                                                                                                                  N.BHGH= 000006
N.BTCH= 000004
BIT14
              040000
                                         G$$TTK = - 000000
                                         G$$WRD=.000000
H$$RTZ=.000074
BIT15
              100000
                                                                                                                                                                 N.BUFB= 004000
N.BUFW= 002000
N.FOS = 000764
N.QURY= 000031
              000004
                                                                                                                          IO.TFC=-003000
IO.TRM=-002410
BIT3
                                         IE.ABO= · жжжжжжк
IE.BAD= · жжжжжж
              000010
BIT4
              000020
                                                                 GX
                                                                                                                          IO.UDI=-011410
IO.UEI=-011450
                                         IE.CHR= ********* GX
IE.DHR= ******** GX
                                                                                 IO.LSI=-011000
IO.LTI=-007400
IO.LTY=-010000
BIT5
             000040
                                                                                                                                                                  N.SUNT= 00000
              000100
                                                                                                                          IO.UER=-011440
                                                                                                                                                                               000072R
                                                                                                                                                                  PACK
BITZ
             000200
                                         IE:IFC=·*>kokokokok
                                                                                                                         IO.USI=-011460
IO.UTI=-011420
IO.UTY=-011430
                                                                                                                                                                  PARITY=
                                                                                                                                                                               004000
              000400
                                         IE: ILU= · *******
                                                                 GX
                                                                                 IO.MAO= 003410
IO.MCS= 013400
                                                                                                                                                                  POWER 002734R
P$$GMX=_000000
BIT9
             001000
                                         IE.LNL= жжжжжж GX
IE.SPC= жжжжжж GX
              000002
                                                                                 IO.MDA= 016000
IO.MDI= 014400
                                                                                                                          IO.WAL= 000410
                                                                                                                                                                  P$$LAS≈ 000000
                                         BYTE@
              папапа
                                                                                                                          IO.WBT= 000500
                                                                                                                                                                  P$$P45= 000000
                                         IE.VER=- ********* GX
INT- =-000100
IODONE 003334R-
IO.ADS=-014000
              000001
BYTE 1
                                                                                 IO.MDO=-015400
IO.MLO=-006000
                                                                                                                          IO.WDD= 000444
                                                                                                                                                                  P$$RFL= 000000
P$$RTY= 000000
P$$SRF= 000000
BYTE2
              000002
                                                                                                                          BYTE3
              000003
                                                                                 IO.MOD=.003000
IO.MSO=.005000
BYTEA
              000004
                                                                                                                         IO.WLS= 000410
IO.WLT= 000410
IO.WLT= 000500
IO.WLV= 000520
                                                                                                                                                                  P$$WRD= 000000
Q$$OPT= 000007
 BYTE5
              000005
                                                                                 IO.NLB=-016530
IO.NLK=-011400
IO.ONL=-017400
                                         IO:ATA= 001410
                                         IO.CAS= 015420
IO.CAS= 015420
IO.CBO= 015510
IO.CCI= 014000
IO.CCO= 000440
BYTE6
             ававае
                                                                                                                                                                  RACK
                                                                                                                                                                               000070
 BYTE7
              000007
                                                                                                                                                                            = 000400
= 000000
                                                                                                                                                                  RBF
BYTE8
             000010
                                                                                  IO.RAD= 010400
                                                                                                                          IO.UNS=:000420
                                                                                                                                                                  RCV.
BYTE9
              000011
                                                                                 IO.RAL= 001010
IO.RBC= 003000
IO.RCI= 015000
IO.RCV= 015000
                                                                                                                                                                 RCVINT 001710R
RECEVE, 000740R
RESET = 000004;
                                                                                                                          IO.WPB= 000440
                                         IO.CIN= 016500
IO.CLK= 015000
IO.CNT= 017000
BYTVAL =
             000012
                                                                                                                          IO.XMT= 014400
CANCEL
             003052R
                                                                                                                          IO.XNA= 014410
CKERR
              003146R
                                                                                                                          IS.SUC= жжжжжжж GX
ITSOK - 001760R.
                                                                                                                                                                 RESTRT
RETTE
                                                                                                                                                                               00006.4R
                                         10.CNT--017000
10.CDR--015400
10.CPR--015410
10.CPW--016520
10.CRC--001040
10.CRJ--015440
CHTBL
             000002R
                                                                                 IO.RDB=-001200
IO.RDD=-010010
                                                                                                                                      001760R
                                                                                                                                                                               000252R
             100000
                                                                                                                                                                           ____UUUZDZ
===000001
 COMP.
                                                                                                                          I$$RAR = . 000000
                                                                                                                                                                 RPM0 -
 C$$CDA=
             000002
                                                                                 IO.REL=-013400
IO.RFC=-003400
                                                                                                                          I$$RDN=:000000
                                                                                                                                                                  RPM1 = 000002
C$$CKP=-000000
                                                                                                                          I : FCN - = - Hotoletokok
C$$CSR=
             177404
                                                                                 IO.RHD= 001010
                                                                                                                                      жжжжж
                                                                                                                                                                  RST 000066R
C$$INT= 000000
                                         IO.CSI= 013000
IO.CSM= 016470
                                                                                  IO.RLB=
                                                                                                                                                                 RTRT 000254
RSTRTC= 000052
                                                                                              жоюююю
                                                                                                                         KISAR6 = · »юкжжжы
C$$ORE = . 002000
C$$RSH = . 177564
                                                                                 IO.RI V= : 001100
                                                                                                                         K$$CNT=
K$$CSR=
                                                                                                                                      177546
177546
                                         IO:CTI= 015400
IO:CTL= 016400
                                                                                 IO.RMT=-010020
IO.RMC=-001040
                                                                                                                                                                  R##DFR=
                                                                                                                                                                               ย่ออักกก
C$$RUH= · 000000
C$$TTY= · 177564
                                                                                                                         K$$IEN= 000115
K$$LDC= 000001
                                                                                                                                                                  R$$EXV=
                                                                                                                                                                               000000
                                                                                 10.RNE=-001020
10.RNS=-001020
10.RNS=-001040
                                         IO.CTR=-015610
IO.CTY=-003400
IO.DCT=-014400
                                                                                                                                                                  R$$K11=.000001
          = .000100
                                                                                                                         K$$TPS= : 000074
                                                                                                                                                                  R$$P11=.
                                                                                                                                                                               000001
DBSLEN= 000116
                                                                                                                                      000001
                                                                                                                                                                  R$$SND = - PARABA
                                         IO.DIS= 016000
IO.DLB= 016540
                                                                                 IO.RPR=-001040
IO.RPR=-004400
IO.RST=-001001
DMA.
             002600R
                                                                                                                         LDsXM· = · AAAAAA
                                                                                                                                                                  R$$11M=.
                                                                                                                                                                               000000
DMADON= 000200
                                                                                                                         LOOPB 000070R
L$$ASG-~80000
                                                                                                                                                                  R CSR 000000
R DBW 000002
R EFO 000024
                                                                                                                                                                                                   004
DMAGO · = · 000001
DPBF · = · 010000
                                         IO.DSI= 013400
IO.DTI= 016000
                                                                                 IO.RTC= 003400
IO.RTI= 016400
                                                                                                                                                                                                   004
                                                         16000 10.RTI=-016400 上野DRV=-0001040 第10.RTM=-001200 上野PT0=-000144 第2 RApproved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                                                                                                                    EFØ
EF1
D$$ISK= 000000
                                                                                                                                                                                                   994
                                        IO.DTY=
                                                     996499
                                                                                                                                                                               000022
```

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ACC - HANDLY
SYMBOL - TA
                          MACRO-M1110 27-MAR-80 13:32 PAGE 24-2
                                                        Approved For Release 2005/07/2. CIA-RDP85-00514R000100030001-3
R.EF2
                                                                        002 · TPM1 = · 001000
002 · TPM2 · = · 002000
                                                                                                                                                       WORD4 = 000010
004 WORD5 = 000012
004 WORD6 = 000014
             000020
                                 004 SR:NIP
                                                     000022
                                                                                                                       T$$30P=
                                                                                                                                    000000
R.MA.
             000004
                                 004 SR.SDB
004 SR.SRC
                                                                                                                       T.CSR
                                                                                                                                    000010
R.WC
             000006
                                                                        002 · T$$ACR = · 000000
002 · T$$BTW = · 000000
                                                     000002
                                                                                                                       T.DB.
                                                                                                                                    000012
SETAPR
SETERR
             003252R
003414R
                                        SR.SUN
                                                                                                                       T.EFØ
                                                                                                                                    000032
                                                                                                                                                       004 WORD7 = -
                                 SR.TWS
002:SR.WSL
002:SR.YR.
002:SR.1IN
                                                     000056
                                                                        002 · T$$BUF = · 000000
002 · T$$CCA = · 000000
                                                                                                                                    000030
SR.ARE
SR.ARS
             000114
                                                                                                                       T.EF2
                                                                                                                                    000026
                                                                                                                                                       004
                                                                                                                                                              WORD9 =
                                                                        002 · T$$CCO = · 000000
002 · T$$CTR = · 000000
              000106
                                                     999994
                                                                                                                                                       004 WRDVAL=
 SR.DAY
              000010
                                                     000024
                                                                                                                                                              XMIT
XMT
                                                                                                                      T: UC
                                                                                                                                    000016
                                                                                                                                                       004
 SR.DLT
                                                                        002 T$$GMC= 000000
T$$GTS= 000000
T$$KMG= 000000
T$$LWC= 000000
                                       SR.1IP
              000014
                                 002
                                                     000016
SR.ECB
SR.ECH
                                 002 SSTU = -
              000047
                                                     100000
                                                                                                                                                              XMTINT 000002
XMTINT 001472F
X$$DBT= 000000
X$$M11= 000002
                                                    · 007600
· *****
                                                                                                                      U.CU3 = ******* GX:
U.SCB = ******* GX:
U.SCB = ******** GX:
              000046
SR.ECL
SR.FIB
              000050
                                 002-S.CSR-=-********* GX-
002-S.CTM-=-****** GX-
002-S.FRK-=-****** GX-
                                 002 S.CSR
                                                                               T$$M11=.00000
T$$RNE=.000000
T$$RPR=.000000
T$$RST=.000000
              000012
                                                                                                                                                              $ACINP: 001710RG
$ACOUT: 001472RG
 Sik.GRE
              000100
                                                                                                                       VEC
                                                                                                                                   000010R
 SR:GRS
              000072
                                 V$$CTR= 000404
                                                                                                                                                              SR.LEN
              000122
                                                                                                                      V$$RSN=.000404
V$$RSN=.000031
WCEZ·=.001000
WORD0=.000000
WORD1=.000002
                                 SR.LIN
SR.LIP
                                                                               T$$RUB=-000000
T$$SYN=-000000
             вавае6
              000062
                                                                               T$$TRW= 000000
T$$UTB= 000000
T$$VBF= 000000
SR. MOH
             000006
SR.HDC
SR.HDS
             000042
000036
                                                                                                                       WORD2 - 000004
WORD3 - 000006
                                                                                                                                                              ...GBL= 000000
SR.HIH.
             000030
                                 002
 . ABS.
             ававав
                                ดดด
              003462
                               001
SRCOFF
             000122
                               คค2
FDSCOF
                               003
             000040
                               004
ERRORS DETECTED:
VIRTUAL MEMORY USED: 10656 WORDS (42 PAGES)
DYNAMIC MEMORY: 12308 WORDS (47 PAGES)
ELAPSED TIME: 00:01:01
ACDRV ACDRV SP=[1,1]EXEMC/ML,[200,200]RSXMC/PA:1,[20,1]P,ACDRV
```

000022

000024

999992

The state of the s

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ACC HANDL DATA BASE MACRO M1110 27+MAR+80 13:33 PAGE 3
Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
                                                                                                                                                                                                                                              .FITLE - ACC HANDLER DATA BASE - MCALL DEVDF$, HWDDF$
                              2345
                                                                                                                                                                                                                                             MCALL
DEVDF$
                                       000000
                                        000000
                                                                                                                                                                                                                                             HWDDF$
                                                                              000002
                                                                                                                                                                                                                                                                                                                                                                   :NO-OF-UNITS-
                               67
                                                                                                                                                                                                              START-OF ACC-DATA-BASE-
                                       000000
                           11
                                                                                                                                                                                                       : DEVICE CONTROL BLOCK (DCB)
                           13
                                       равава
                         14
15
16
                                                                                                                                                                                                                                                                                  0 ;D.LNK, LINK TO NEXT DCB
.AC0 ;D.UCB, LINK TO FIRST UCB
.AC/ ;D.NAM, HANDLER NAME
0,1 ;D.UNIT, LOW AND HIGH UNIT NUMBERS
ACEND-ACSTRT ;D.UCBL, UCB LENGTH
0 ;D.DSP, ADDRESS OF HANDLER DISPATCH TABLE
33 ;D.MSK, LEGAL FUNCTIONS;
; 1) IO.KIL
; 2) IO.WLB
; 3) IO.RLB
; 4) IO.INI
                                         000000
                                                                                                                                                                                                                                               danu.
                                       000002
000004
                                                                               0000421
                                                                                                                                                                                                                                               .WORD
                                                                                               101
                                                                                                                                       103
                                                                                                                                                                                                                                               .ASCII
.BYTE·
                        17
18
19
20
21
22
23
24
25
26
27
                                       000006
                                                                                              000
                                                                                                                                      001
                                       000010
                                                                                                                                                                                                                                               dani.
                                       000012
                                                                              равара
                                                                                                                                                                                                                                                .WORD
                                       000014
                                                                                                                                                                                                                                               .WORD
                                                                                                                                                                                                                                                                                                                                                                   4)
                                                                                                                                                                                                                                                                                                                                                                                 IO, INL
                                                                                                                                                                                                                                                                                                                                                                  5)
                                                                                                                                                                                                                                                                                                                                                                                 IO.TFC
                                                                                                                                                                                                                                                                                                                          6) 10.RFC

#D.MSK, CONTROL FUNCTIONS

#D.MSG, NO-OPID MASK

#D.MSK, ACP MASK
                                       000016
                                                                              000040
000000
                          28
29
30
                                       000020
                                                                                                                                                                                                                                             .WORD-
                                                                                                                                                                                                                                                                                   0
                                       000022
                                                                               равава
                                                                              000000
                                       000024
                                                                                                                     000000 000000
                                                                                                                                                                                                                                                                                   0,0,0,0 ;D.MSK, FOR THE ABOVE WORDS ONLY, BITS 16-32
                                                                                                                                                                                                                                             .WORD
                                       000032
                         31
32
33
34
35
36
37
38
                                       000034
                                                                               000000
                                                                                                                                                                                                                                             .WORD
                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                          ;D.PCB, PARTITION CONTROL BLOCK
                                                                                                                                                                                                    ; UNIT-CONTROL-BLOCK (UCB) ----- UNIT-0
                                       000036
000036
                                                                                                                                                                                                     ACSTRT:
                                                                              000000
                                                                                                                                                                                                                                               .WORD
                                                                                                                                                                                                                                                                                                                                                                  ;U.LUIC
                                       000040
000042
                                                                                                                                                                                                                                             .WORD
                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                       .AC0::
                                      000042
000044
000046
000047
                                                                              0000000°
000042°
                                                                                                                                                                                                                                                                                  ACDCB: ;U.DCB, ADDRESS.OF.DCB.
.-2. ;U.RED, REDIRECT POINTER-
UC.PWF+UC.NPR+UC.ALG+1 ;U.CTL,
0 ;U.STS, UNIT-STATUS.
0 ;U.UNIT, UNIT-NUMBER.
0 ;U.STZ, UNIT-STATUS.
                          39
40
                                                                                                                                                                                                                                            .WORD
                                                                                                                                                                                                                                             .WORD
.BYTE
                          41
42
43
                                                                                            321
                                                                                                                                                                                                                                            .BYTE
.BYTE
.BYTE
.WORD
                                       000050
000051
                                                                                             999
                        44
45
                                                                                             000
                                                                              000000
                                       000052
                                                                                                                                                                                                                                                                                                                           :U.CW1
                        46
47
                                       000054
000056
                                                                              000000
                                                                                                                                                                                                                                                                                                                          :U.CW2
:U.CW3. BLOCK-COUNT-FOR-MULTI-BLOCK-DMA-10
                                                                                                                                                                                                                                             .WORD
                                                                                                                                                                                                                                                                                   Ø
                                                                              000000
                                                                                                                                                                                                                                              .WORD
                                       000060
                       48
49
50
51
52
53
54
                                                                               000000
                                                                                                                                                                                                                                                                                                                          ;U.CW4
;U.SCB, POINTER TO UNITES SCB
                                                                                                                                                                                                                                                                                   й
                                                                                                                                                                                                                                             . MORD
                                                                                                                                                                                                                                                                                  ACSCB0
                                                                              0001321
                                                                                                                                                                                                                                               .WORD
                                     000062
000064
000066
000070
                                                                              000000
                                                                                                                                                                                                                                                                                                                                                                                                                                   THE STATE OF THE S
                                                                                                                                                                                                                                             .WORD
                                                                                                                                                                                                                                                                                                                           :U.ATT
                                                                              000000
                                                                                                                                                                                                                                            .WORD.
                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                           :U.BUF
                                                                                                                                                                                                                                                                                                                                                                                                                    The second of th
                                                                              000000
                                                                                                                                                                                                                                                                                                                           :U.CHT
                                                                                                                                                                                                                                             .WORD
                                     000074
                                                                                                                                                                                                    ACEND:
                       55
                       56
                                                                                                                                                                                                     : UNIT-CONTROL-BLOCK (UCB) ---- UNIT-1
                                                                                                                                                                      Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
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ACC · HANDLER · DATA · BASE ·
                                   MACRO-Milio 27+MAR-80 13:33 PAGE-3-1
                                                     Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
            000074
                                                                            .WORD
                                                                                                     :U.LUIC-
        59
            000076
                         000000
                                                                            .WORD
                                                                                        ō
        60
            000100
                                                               .AC1::
        61
            000100
                         0000000
                                                                            . WORD
                                                                                        ACDCB-
                                                                                                     :U.DCB. ADDRESS OF DCB
        62
63
64
            000102
                                                                                       -2: ULRED, REDIRECT POINTER:
UC.PUF+UC.NDR+UC.ALG+1: U.CTL,
0: U.STS. UNIT-STATUS
1: U.UNIT, UNIT-NUMBER
                                                                            .WORD
            000104
                             324
                                                                            .BYTE
            000105
                                                                            .BYTE
        65
66
67
            000106
                                                                            .BYTE
                             001
                                                                                        1
            000107
000110
                                                                                                     :U.ST2, UNIT STATUS
;U.CW1
                              000
                         аваааа
                                                                            .WORD
                                                                                        0000
            000112
000114
        68
70
71
72
73
                         000000
                                                                                                     :U:CW2
                         000000
                                                                            . WORD
                                                                                                     ;U.CW3, BLOCK.COUNT.FOR.MULTI-BLOCK.DMA.IO
            000116
000120
                         000000
                                                                            .WORD
                                                                                                     :U.CW4
                                                                                        ACSCB1
0
0
                                                                            . МОРТ
                                                                                                     ;U.SCB, POINTER TO UNITES SCB
            000122
                         папапап
                                                                            .WORD
            000124
                         000000
                                                                                                     :U.BUF
:U.CHT
                                                                            danil.
        74
            000126
                         ававава
        75
76
77
78
79
            000130
                         000000
                                                                            .WORD
                                                                                        0
                                                                  STATUS CONTROL BLOCK --- UNIT 0
                                                                                                                                                                         New York
                                                                                                                                                                 -7-7-
            000132
                                                               ACSCB0::
                                                                                                                                                                               . 541
        80
            000132
000134
                                                                            .WORD
                         000000
                                                                                        0
                                                                                                     :S.LHD
        81
82
                         000132
                                                                                        .-2·
PR5
170/4
                                                                            .WORD
                                                                                                                                                                                 3.
            000136
000137
                             240
                                                                                                    #S.VCT, DEVICE-INTERRUPT-VECTOR/4
#S.CTM, CURRENT-TIME-OUT-COUNT-
#S.ITM, INITIAL-TIME-OUT-COUNT-
#S.CON, CONTROLLER-INDEX-TIMES-2-
#S.SCTS, CONTROLLER-STATUS-
#S.SCR, ADDRESS-OF-THE-FIRST-CSR-
#S.FRT, POINTER-TO-THE-ACTIVE-I/O-PACKET-
#S.FRT, FORK-SAVE-AREA-
        83
                              036
                                                                            .BYTE
                             000
024
        84
            000140
                                                                            BYTE
                                                                                        ê.
        85
            000141
                                                                            .BYTE
                                                                                        20.
        86
87
88
            000142
                             aaa
                                                                                        0
             000143
                             000
                                                                            BYTE
                                                                                        0
            000144
                         167649
                                                                            .WORD
                                                                                        167640
        89
            000146
                         000000
                                                                            .WORD
                                                                                        9
5
       90
91
92
            000150
                                                                            .BLKW.
                                                               ; STATUS CONTROL BLOCK ---- UNIT 1
        93
94
95
96
97
98
            000162
000162
                                                               ACSCB1::
                                                                            .WORD
                                                                                        0
                                                                                                     ;S.LHD
            000164
                         0001621
240
                                                                            .WORD
                                                                                        .-2.
PRS
            000166
                                                                            . BYTE
                                                                            .BYTE
                                                                                        170/4
                                                                                                    :S.VCT, DEVICE-INTERRUPT-VECTOR/4
:S.CTM, CURRENT-TIME-OUT-COUNT-
:S.ITM, INITIAL-TIME-OUT-COUNT-
            000167
                              936
            000170
        99
      100
                              024
                                                                            .BYTE
                                                                                        20.
2
                                                                                                    SS.IIM INTITHE TIME OUT COUNTY
SS.CON, CONTROLLER INDEX TIMES 2
SS.STS. CONTROLLER STATUS
SS.CSR. ADDRESS OF THE FIRST CSR 7 1 2
SS.CSR. POINTER TO THE ACTIVE IZO PACKET
      101
102
            000172
                              002
                                                                                                                                                                         000173
                             000
                                                                            BYTE
                                                                                        ō
      103
            000174
                          167640
                                                                            WORD
                                                                                        167649
      104
            000176
                         000000
                                                                            . WORD
      105
106
107
            000200
                                                                            .BLKW
                                                                                                     ;S.FRK, FORK-SAVE-AREA
      108
                                                                  END OF THE ACC HANDLER DATA BASE
      109
            000212
                                                               $ACEND::
                        000001
```

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ACC · HANDLE DATA · BASE · SYMBOL · TAL
                                                MACRO Milla 27-MAR-80 13:33 PAGE 3-2
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
 ACDOR.
                                                 FE: DRV= - 000010
                                                                                                 M.LGTH= 000014
M.LNK 000000
                                                                                                                                                                                                 US:0UT= 0000001
 ACEND.
                999974R
                                                 FE.EXP= 000200
FE.EXT= 000001
                                                                                                                                                 T$$ACR= 000000
T$$BTW= 000000
                                                                                                                                                                                                  US.PUB= 000004
                                                                                                 M. LIMPA
                                                                                                                 000002
000004
                                                FE.EXV= 000004
FE.LSI= 000400
FE.MUP= 000002
FE.MXT= 040000
                                                                                                                                                                                                 HS. PHE -
                                                                                                                                                                                                                 000010
 ACSCB1
                000162RG
                                                                                                 M.UMRN
                                                                                                                                                  T$$BUF = - 000000
                                                                                                                                                                                                  US.RED=
 ACSTRT
                 000036R
                                                                                                                                                                                                                 000002
                                                                                                 M. UMVH.
                                                                                                                 000010
                                                                                                                                                  T$$CCA= . 000000
T$$CCO= . 000000
                                                                                                                                                                                                 US.SHR=
US.SPU=
                                                                                                                                                                                                                 000001
000002
 A$$CHK=-000000
                                                                                                 M.UMVL
                                                                                                                 000006
 A$$CPS= 000000
A$$Cil= 000002
                                                                                                 N$$LDV= - 000001
                                                                                                                                                  T$$CTR=-000000
                                                                                                                                                                                                US.UMD= 000010
US.WCK= 000010
U.ACP = 000032
U.ATT 000022
                                                                                                                                                | T$$CTR = .00000
| T$$GTC = .00000
| T$$GTS = .00000
| T$$KTG = .00000
| T$$LUC = .00000
| T$$M11 = .00000
| T$$RNE = .00000
| T$$RPR = .00000
| T$$RPR = .00000
                                                 FE.NLG= 100000
FE.PKT= 000100
                                                                                                 N$$MOV=
                                                                                                                 000041
 A$$NSI=.000000
A$$PRI=.000000
                                                                                                 PIRO - - 177772
                                                FE:PLA=-000020
F$$LVL=-000001
G$$TPP=-000000
G$$TSS=-000000
                                                                                                 PMODE - = -
                                                                                                                 030000
 A$$TRP= 000000
CMODE = 140000
                                                                                                 PRØ.

    - คดคดดด

                                                                                                                                                                                                 U. BHE
                                                                                                                                                                                                                 06.0024
                                                                                                                 000040
                                                                                                                                                                                                U.CBF.
U.CNT.
U.CTL.
U.CW1
                                                                                                                                                                                                                 000032
 C$$CDA=-000002
                                                                                                 PR4
                                                                                                             - 000200
                                                                                                                                                                                                                 000030
 C$$CKP=-000000
C$$CSR=-177404
                                                 G$:TTK = . 000000
G$$WRD = . 000000
                                                                                                             = 000240
                                                                                                 PR5
                                                                                                                                                                                                                 000004
                                                                                                             = 000300
                                                                                                 PR6
                                                                                                                                                T$$RST= 000000
T$$RUB= 000000
T$$SYN= 000000
T$$SYN= 000000
T$$UB= 000000
T$$UB= 000000
T$$UB= 100000
U$$UB= 170200
UBMPR = 170200
UC: ALG= 000200
                                                                                                                                                                                                                 000010
 С$$ІНТ= : АЯАЯЯЯ
                                                 H$$RTZ=.000074
                                                                                                             = 000340
                                                                                                 PR7
 C$$ORE = . 002000
                                                                                                                                                                                                                 000012
                                                 ISSRAR = DARAGA
                                                                                                                                                                                                U.CW3
U.CW4
                                                                                                                                                                                                                 000014
 C$$RSH= · 177564
C$$RUN= · 000000
                                                  I$$RDN= 000000
                                                                                                 P$$GMX= . 000000
                                                                                                                                                                                                                 000016
                                                 KDSAR0= 172360
KDSDR0= 172320
                                                                                                P$$LAS= 000000
P$$P45= 000000
                                                                                                                                                                                                U.DCB.
U.LUIC
C$$TTY=-177564
DV:CCL=-000002
DV:COM=-020000
                                                                                                P$$RFL=-000000
P$$RTY=-000000
P$$RTY=-000000
P$$SRF=-000000
P$$URD=-000000
                                                                                                                                                                                                                 1777774
                                                 KISAR9= 172349
                                                                                                                                                                                                 HE OUN
                                                 KISAR5= 172352
KISAR6= 172354
                                                                                                                                                                                                 U.RED
DV:CON--02000
DV:DIR--000010
DV:Fi1--040000
DV:ISP--002000
                                                                                                                                                                                                                000020
                                                                                                                                                                                                U.SCB
U.STS
                                                                                                                                                UC.ALG= 000200

UC.ATT= 000010

UC.KIL= 000004

UC.LGH= 000003

UC.PPR= 0000100

UC.PWF= 000020

UC.QUE= 000040

UDSAR0= 177660
                                                 KISAR7= 172356
KISDR0= 172300
                                                                                                                                                                                                                 000005
                                                                                                P$$URD= 000000
Q$$OPT= 000007
R$$DER= 000000
R$$EXV= 000000
R$$K!1= 000001
R$$P1= 000001
R$$P1= 000000
R$$11M= 000000
                                                                                                                                                                                                U.ST2
U.UIC
                                                                                                                                                                                                                 000007
 DV:MNT= 100000
                                                 KISDR6=-172314
KISDR7=-172316
                                                                                                                                                                                                                · 000052***********
 DV.MXD= 000100
DV.OSP= 004000
                                                                                                                                                                                                U.UIC = 000052
U.UNIT __000006
U.VCB = 000034
U2.CRT = 000020
U2.CRT = 002000
U2.DHI = 000000
U2.DJI = 000000
U2.DJI = 000100
U2.DJI = 000100
U2.ESC = 001000
U2.HLD = 000040
U2.LOZ = 90040
                                                 K$$CNT= · 177546
K$$CSR= · 177546
DV:PSE=-010000
DV:REC=-000001
                                                K$$IEN=.000115
K$$LDC=.000001
K$$TPS=.000074
LD$XM.=.000000
DV:SDI= 000020
                                                                                                                                                UDSDR0= 177620
UISAR0= 177640
 DV.SQD=-000040
                                                                                                SISDR0=-172200
SPARE---000010
DV:SWL= 001000
DV:TTY= 000004
                                                                                                                                                UISAR4= 177650
UISAR5= 177652
                                                L$$ASG=-000000
                                                                                                SP.EIP=-000001
SP.ENB=-000002
SP.LOG=-000004
SR0 =-177572
                                                L$$DRV=.000000
L$$PTO=.000144
 DV.UMD= ∩AAA2AA
                                                                                                                                                UISAR6= 177654
UISAR7= 177656
D$$ISK=.000000
D$$Li1=.000004
                                                                                                                                                                                                U2.LOG=
U2.LWC=
                                                                                                                                                                                                                000400
000001
                                                                                                SRØ
SR3
                                                 L$$P11=.000001
                                                                                                                                                UISDR0= 177600
UISDR4= 177610
 ມ$$SHF=-000000
D$$YNC=-000000
                                                 L.ASG
                                                                000010
                                                                                                                 172516
                                                                                                                                                                                                                000004
                                                                                                                                                                                                U2.L3S=
                                                L.LGTH= 000012
L.LNK 000000
                                                                                                 SWR
                                                                                                                                                UISDR5=-177612
                                                                                                                                                                                                U2:L85=
D$$YNM= 000000
D.DSP 000012
                                                                                                                                                                                               U2.NEC= 004000
U2.NEC= 004000
U2.PRV= 000010
U2.RMT= 020000
U2.R04= 100000
U2.SLV= 000020
U2.SLV= 000002
U2.YT5= 000002
U2.YCH= 010000
                                                                                                 S$$YSZ = - 007600
                                                                                                                                                UISDR6=-177614
UISDR7=-177616
                000012
                                                 L:NAM-
                                                                000002
                                                                                                 S.BMSK
DILNK
                000000
                                                                000005
                                                                                                S. BMSV
                                                                                                                                                US.ABO= 000001
US.BSP= 000002
D.MSK
                000014
                                                L. HCB.
                                                                999996
                                                                                                 S.CON
D. NAM
                000004
                                                 L.UHIT
                                                                000004
                                                                                                                                                US.BSY= 0000002
US.CRW= 000004
                                                                                                 SICSR
                                                                                                                 000012
 D.PCB
                000034
                                                MPAR· =·
MPCSR·=·
                                                                172100
177746
                                                                                                 S.CTM
D.UCB
                000002
                                                                                                 S.FRK
                                                                                                                 000016
                                                                                                                                                US.DSB= 000010
US.ECH= 000002
 D.UCBL
                000010
                                                 M$$CRB≃ · 000124
                                                                                                 S.ITM
                                                                                                                 000007
                                                                                                                                                                                                V$$CTR= 000404
V$$RSN= 000031
                                                M$$CRX= 000000
M$$FCS= 000000
D.UNIT
                000006
                                                                                                 S.LHD
                                                                                                                 ававая
                                                                                                                                                US.FOR= 000040
US.FRK= 000002
 D. VCAN=
                000002
                                                                                                S.PKT
S.PRI
                                                                                                                                                                                                X$$DBT=
X$$M11=
                                                                                                                                                                                                                000000
D. VINI=
                овевев
                                                 M$$MGE = . 000000
                                                                                                                                                US.LAB = 000004
US.MDE = 000002
                                                                                                                 000004
                000004
                                                 M$$MUP = · AAAAAA
                                                                                                 SIRCHT
                                                                                                                                                                                                                2000000KG
2002128GV
200042RG
200100RG
                                                                                                                                                                                                SACDAT.
                                                M$$0VR= 000000
M.BFVH 000011
D. VPLIE = · AAAAAA
                                                                                                S.ROFF
                                                                                                                                                US.MDM= 000020
US.MNT= 000100
                                                                                                                                                                                                 $ACEND_
E$$XPR= 000000
                                                                                                S.STS
                                                                                                                 00001
                                                                                                                                                                                                 . AGQ
FE:CAL = 000040
                                                M.BFVL
                                                                                                 s.vcT
                                                                                                                                                US.OFL = 000001
                                                                                                                000005
FE.CEX= 020000
   ABS.
               177776
                                      000
```

ACC-HANDLER-DATA-BASE- MACRU-M1110 27-MAR-80 13:33 PAGE-3-3 SYMBOL-TABLE- Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3

000212: 001 ERRORS:DETECTED: 0

VIRTUAL-MEMORY-USED: 3639 WORDS- (-15 PAGES)
DYNAMIC-MEMORY: 4916 WORDS- (-18 PAGES)
ELAPSED-TIME: 00:00:12ACTAB.ACTAB/+SP=[1,1]EXEMC/ML.[200,200]RSXMC/PA:1.[20,1]ACTAB-

DMCIN---MACRO-M1110 27+MAR+80 13:24
TABLE-OF-CONTENTS- API Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

25 103 142 168 197 274 10-11-12-13-14-15-16-

MACRO'S AND CONSTANTS
ASSEMBLY-TIME DATA DEFINITIONS
INIT THE DMC - READ HANG LOOP
SPOOL FILES
SINGLE BLOCK EXCHANGES
DHR BUFFERS
SUBROUTINES

- 3 23 12

```
DMCIN...MACRO.M1110 27-MAR-80 13:24 PAGE-11 ASSEMBLY-TIME.DATA.DEFINITIONS Approved Fo
                                                              Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                                         .SBTTL- ASSEMBLY-TIME-DATA-DEFINITIONS .PSECT-
         26
27
28
29
              000000
                                                                          .1/O-STATUS-BLOCKS-
DMCIOS: .BLKW- 2-
SYIOS: .BLKW- 2-
              000000
         301
333
334
356
338
344
424
444
444
444
              000004
              000010
000010
                                                                                         FDOF$L
                                                                                         FCSBT$
                                                                          :OUTPUT FILE FDB
OFILE: FD8DF$
              000010
000150
                                                                                        FDRC$A FD.RWM-
FDBK$A N.BUFE
                                                                                                       .N.BUFB. EF. IO. SYIOS
DPLUN
              000150
000150
                                                                                        FDOP$A
              000150
                                                                                        FSRSZ$ 0
                                                                         ;EXCHANGE ID PARSE TABLE
EXCHID: ASCII ZOFZ
.WORD FOSRCY
.ASCII ZADZ
          45
              000150
000152
000154
000156
                             117
000640'
         46
47
48
49
51
52
53
54
                                                  106
                             101
                                                                                                       DUBSPL
ZTRZ
DUBSPL
                                                                                         . WORD
              000160
000162
                             124
009702
                                                   122
                                                                                         .ASCII
              000164
000166
000166
000170
                                                                                         .ASCII
                                   110
                                                  104
                                                                                                       ZHDZ
DHRBUF
                                                                                         .ASCII
.WORD
                                                                                                       ZXSZ
SUXDON
                                   130
                                                  123
                             130
000736*
104
000752*
122-
000766*
         55
56
57
58
59
61
62
                                                                                                       /DU/
DTBEND
/RC/
STATRC
              000174
000176
                                                  125
                                                                                         .ASCII
              000200
000202
                                                  103
                                                                                         .ASCII
.WORD
                              000007
                                                                          TABLSZ=<.-EXCHID>/4
                                                                         ;
;ERROR·MESSAGES·
ERRit· .WORD· ERRiL·
ERRIT· .ASCII· /DMCINX: DMC·START-UP·FAILURE/
                             000034
104
111
072
115
123
122
              000204
000206
000211
000214
         63
64
                                                  115
116
040
103
124
124
120
                                                                 103
130
104
              000217
000217
000222
000225
                                                                040
101
                                                                055
040
              000230
                                    106
114
                                                  101
125
                             105
000034
              000241
         65
66
67
68
69
                                                                          ERRIL = . - ERRIT
                                                                                         .EVEN
              000242
000244
000247
000252
000255
                             000030
                                                                          ERR2:
                                                 115
116
040
                                                                103
130
104
                                   104
                                                                          ERR2T:
                                                                                        .ASCII. /DMCINX: DMC.READ.FAILURE/.
                                   111
072
115
                                                  103
                                                                040
                                                              Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
DMCIN---M D-M1110 27-MAR-80 13:24 PAGE-11-1 ASSEMBLY- E-DATA-DEFINITIONS Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
              000260
000263
000266
                                                 105
040
                                   122
104
                                                                101
106
114
                                   101
125
                                                  111
               000271
                                                                 105
         70
71
72
73
74
                             000030
                                                                         ERR2L=.-ERR2T
                                                                                        .EVEN
              000274
000276
000301
000304
                                                                         ÉRR3:
                                                                                        .WORD
                                                                                                      ERR3L
                                   104
111
                                                  115
116
                                                                 103
130
125
116
116
130
101
                                                                         ERR3T:
                                                                                        .ASCII /DMCINX: UNKNOWN EXCHANGE RECEIVED/
                                   072
116
117
                                                 040
113
127
105
              000304
000307
000312
000315
000320
000323
                                   040
                                   103
116
040
103
                                                  110
107
122
105
               000326
000331
                                                                 105
                                                                 111
               000334
                                   126
                                                  105
                                                                 104
         75
76
77
78
79
                             000041
                                                                         ERR3L=.-ERR3T
              000340
000342
000345
                                                                                       .WORD: ERR4L:
.ASCII: /DMCINX: DISK:ERROR/:
                             000022
                                                                         ERR4:
                                                                103
130
104
113
122
122
                                   104
111
072
111
                                                  115
                                                                         ERR4T:
                                                  116
040
123
105
117
               000350
000353
               000356
000361
                                   040
122
         80
81
82
83
                             000022
                                                                         ERR4L=.-ERR4T
                                                                         :
ERR5:
                             000030
              000364
                                                                                       WORD
ASCII
                                                                                                      ERR5L / DMC IHX:
              000364
000366
000371
000374
000377
                                                 115
116
011
116
111
040
                                                                103
130
114
113
116
040
          84
                                   104
                                                                                                                                    LINK-INL
                                   111
072
111
                                   040
114
               000405
               000410
                                   040
040
                                                  040
                                                                040
040
                                                  040
         85
86
87
88
89
                             000030
                                                                                       -ERR5T.
                                                                         ERR5L=
              000416
000420
                                                                                       .WORD: ERR6L:
.ASCII: /DMCINX: CAN'T RUN:TASK/
                                                                103
130
103
047
122
040
123
                                   104
111
                                                  115
116
                                                                         ERR6T:
              000420
000423
000426
000431
000434
                                   072
101
                                                 040
                                                  116
                                   124
125
124
113
                                                 040
116
              000437
000442
                                                  101
              000445
         90
91
92
93
                             000026
                                                                         ERR6L=.-ERR6T
                                                              Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

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DMCIN---MACRO-M1110 27-MAR-80 13:24 PAGE-11-2-ASSEMBLY-TIME-DATA-DEFINITIONS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

```
DMC IN . . . M
IN IT . THE .
               0-M1110 27-MAR-80 13:24 PAGE-12-
- READ-HANG-LOOP- Approved For
                                               Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     103
                                                                   .SBTTL - INIT THE DMC - READ HANG LOOP
     104
          000512
                                                       ĎMCIN:
     106
107
          000512
                                                                   FINIT$
     108
                                                        ; DETERMINE OUR UNIT NUMBER
      109
           000516
                                 000000G
                                                                              #SN.R5
R5.R5
                                                                   MOV
                                                                                                               :SAVE-DUR-UNIT-#-TIMES-2
          000522
000524
     110
                     060505
010567
                                                                   ADD
                                  177752
                                                                             R5.UNITHB
SUDHRI(R5).R5
R5.ADHRCT
DH.BF0(R5).R5
                                                                   MOV
     112
                                 000000G
177744
          000530
                      016505
                                                                                                               CONTROL TABLE ADDRESS SAVE IT: FIRST BUFFER ADDRESS
     113 000534
114 000540
                      010567
                                                                   MOV
                     016505
062705
                                 คิดดดด2
      115
          000544
                                 000000G
                                                                   ADD
                                                                              #DHRCOM, R5
     116
117
118 000550
                                                       :TERMINATE LINK:
:INIT-LINK
:MSG-TO-CONSOLE:-
     119 000556
120 000564
                      012700
                                 0003641
          000570
                                                                                                                   LINK-INITIALIZED
     123
124
125
126
                                                        HANG: A: READ: FOR: THE NEXT: EXCHANGE
HANGRD: CALL: READMC:
BCS: INLDMC:
          000574
                                                       HANGRD: CALL
                                                                                                                :READ-LINK
          000600
                      103766
                                                                                                               :ERROR, RE-INITIALIZE
     127
128
                                                       :PARSE EXCHANGE MSTRST: MOV
          000602
000606
000612
                     012701
012700
022115
     129
130
                                 000150°
000007
                                                                              #EXCHID,R1
#TABLSZ,R0
(R1)+,(R5)
                                                                                                               :PARSE TABLE ADDRESS
                                                                  MOV
     131
                                                                  CMP
BNE
                                                       1#:
                                                                                                               :CHECK · ID · MATCH ·
          000614
                                                                              2$
                                                                                                                : NO
                                                                                                               GOT-MATCH - GO-TO-ROUTINE
                      000131
                                                                   JMP
                                                                              @(R1)+
     134
     135
          000620
                     862781
                                 000002
                                                                  ADD
SOB
MOV
                                                       2$:
                                                                              #2,R1
                                                                                                               ; NEXT - ENTRY-
     136
137
          000624
000626
                                                                              R0.15
                                 0002741
                     012700
                                                                              #ERR3.R0
                                                                                                               ;YES - REPORT ERROR
          000632
                                                                   CALL
                                                                              CONUT
                     000756
          000636
                                                                              HANGRD
     140
```

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DMCIN...MACRO.M1110 27-MAR-80 13:24 PAGE-13 SPOOL-FILES- Approved Fo
                                                        Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       142
143
144
                                                                                .SBTTL · SPOOL · FILES ·
                                                                     GOT-FOS-IN-
                                                                                             UNITHB,R4
SUINDX(R4),R4
                                                                                                                                     :UNIT:#+OF OUR-DMC-
:PUT-FDSC-IN-SU-
: STATUS-TABLE-
:FOS-FILE-NUMBER-
:DMC-DATA-TO-FILE-
:RETRY-EXCHANGE-
       145
             000640
                          016704
                                        177636
                                                                   FOSRCV: MOV-
                          016404
062704
       146
147
             000644
000650
                                        000000G
000002
                                                                                MOV-
                                                                                             #SS.FID.R4
FD.FNB(R4).R1
WRTFIL
       148 000654
149 000660
                                                                                MOV.
CALL
                          016401
                                        000006
       150 000664
                           103734
                                                                                BCS.
                                                                                              INLDMC -
       152 000666
                          012700
                                                                                MOV.
                                                                                             #1,R0
GOSCHD
                                        000001
                                                                                                                                      ;SSQ · COMMAND · CODE
       153 000672
                                                                                CALL
                                                                                                                                     :TELL SCHED FOS IS IN
                          000167
       154 000676
                                        177672
                                                                                JMP.
                                                                                             HANGRD -
       156
                                                                     RETRIEVED DOCUMENT OR DATA BASE UPDATE SPOOL FILE

UBSPL: MOV #SDATA+2,R4 ;PUT FDSC IN SEND PACKET-

MOV #FN.DBR,R1 ;FILE NUMBER-

CALL WRTFIL ;DMC-DATA-TO-FILE-

BCS INLDMC ;RETRY EXCHANGE-
       157
       157
158 000702 012704
159 000706 012701
160 000712
                                                                  DUBSPL: MOV-
MOV-
CALL
BCS-
                                        0004521
                                        000026
             000716
                           103717
       162
163 000720
164 000726
                                                                                                                                     ;COMMAND-BYTE.;QUEUE-TO-HOTSK
                          112767
                                        000004
                                                    177523
                                                                                MOVB -
                                                                                              #4.SDATA+1
                                                                                             GOHOTK
                                                                                CALL
JMP
       165 000732 000167
166
                                                                                             HANGRD
```

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ρ⋅M1110 27
EXCHANGES
SINGLE BL
                                  27+MAR-80 13:24 PAGE 14
                                                       PAGE 14
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CIA-RDP85-00514R000100030001-3
      168
169
170
171
172 000736
173 000746
174 000746
175
176
177
178 000752
179 000752
180 000762
                                                                               .SBTTL - SINGLE - BLOCK - EXCHANGES
                                                                    SUX% DONE
                          012700
                                       000000
                                                                  SUXDON: MOV-
CALL
                                                                                                                                   :COMMAND 0 TO MSCHED
                                                                                            GOSCHD
                          000167
                                        177622
                                                                                            HANGRD
                                                                    DATA BASE END
             000752 012700
                                                                 DTBEND: MOV-
CALL
                                       000002
                                                                                            #2,R0
                                                                                                                                   ;COMMAND.2 TO.MSCHED
                                                                                            GOSCHD
                          000167
                                        177606
                                                                              JMP
                                                                                            HANGRD
       181
                                                                 ; STATUS-RECORD - COPY TO MCOM
STATRC: MOV UNITNB,R0
MOV SRECPT(R0),R0
MOV R5,R1
ADD #2,R1
       183
184 000766
185 000772
186 000776
                                        177510
                          016700
                                                                                                                                   ;GET-ADDRESS-OF-THIS SU'S-
; STATUS-RECORD-IN-MCOM-
;INPUT-DATA-ADDRESS-
                          016000
                                        000000G
                          010501
                         062701
062701
012702
012120
077202
            001000
001004
       187
188
                                        000002
                                                                                                                                   ;LENGTH.OF DATA:
;COPY.DATA TO.MCOM.
                                       000051
                                                                              MOV.
                                                                                            #SR:LEN/2,R2
(R1)+,(R0)+
       189 001010
190 001012
                                                                  1$:
                                                                               SOB
                                                                                            R2,1$
       191
192 001014
193 001020
194 001024
                                                                              MOV.
CALL.
JMP.
                          012700
                                                                                           #3,R0
GOSCHD:
HANGRD:
                                       000003
                                                                                                                                   ;COMMAND.3 TO.MSCHED
                          000167
                                       177544
       195
```

```
-MACRO-M1110 27-MAR-30 13:24 PAGE-15
DHR BUFFERS
                                            Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                .SBTTL · · DHR · BUFFERS
     198
199
                                                       GOT-A-DHR-BUFFER-INPUT- NOT CONCATENATING YET-
     200
201
          001030
                     005765
                               003776
                                                    DHRBUF: TST
                                                                         N.BUFB-2(R5)
STRTCT:
                                                                                                         :BRANCH-IF CONTINUATION DHR : :
     202
203
          001034
                     100467
     204
205
                                                       SINGLE-BLOCK DHR MOVB SUST-2,2(R5)
     206
          001036
                     116765
                                177776G-000002
                                                                                                         ;BATCH·#·IN·DHR·BUFFER
          001044
                     105065
                               000003
                                                               CLRB
                                                                          3(R5)
     208
          001050
                                                                         ADHRCT.R2
DH.DMC(R2).R3
#177776.R3
R3.R3
     209
                                177430
                                                               MOV-
                                                                                                         :CONTROL · AREA · ADDRESS
:CURRENT · BUFFER · # ·
     210 001054
211 001060
212 001064
                     116203
042703
                               000010
177776
                                                               MOVB
                                                               BIC.
                     060303
                                                               ADD
     213
                                000506* 000000
                     056362
                                                                         BITMAP(R3), DH.CTL(R2)
                                                               BIS
                                                                                                         ;SHOW-ITS-FULL-
     214
                                                       QUEUE
                                                               BUFFER
                                                                        TO HOTSK
     215
          001074
                     112767
                                000005
                                          177347
                                                                         #5.SDATA+1
R2.SDATA+2
R5.SDATA+4
BITMAP(R3).SDATA+6
                                                               MOVB
                                                                                                         :BUILD-SEND-PACKET
     216
217
          001102
001106
                    010267
010567
                                177344
177342
                                                               MOV
     218
219
220
          001112
001120
                     016367
                                0005061
                                         177336
                                                               CALL
                                                                          GOHOTK
                                                                                                         :CALL - HOTSK -
          001124
                     105262
                                000010
                                                               INCB
                                                                         DH:DMC(R2)
#2,R3
#177775,R3
                                                                                                         ; NEXT - BUFFER - NUMBER
          001130
                     062703
042703
                               000002
177775
                                                                ADD
          001134
                                                               BIC
                                                                                                         ; MEXT · BUFFER · INDEX
     224
          001140
                     936362
                               0005061
                                          000000
                                                   TNXTBF:
                                                                          BITMAP(R3), DH.CTL(R2)
                                                                                                         :SEE · IF · NEXT · BUFFER · BUSY
     225
226
          001146
                     001007
                                                               BNE
                                                                          WAITBE -
          001150
                     060203
                                                               ADD
                                                                                                         :NEXT-BUFFER-ADDRESS
     227 001152
228-001156
                     016305
                               000002
                                                                          DH.BF0(R3),R5
                                                               MOV
                     962795
                               000000G
177406
                                                               ADD
                                                                          #DHRCOM, R5
     229
230
                                                               JMP
                                                                          HANGRD -
                                                    : WAIT FOR HOTSK
WAITBF: WTSE$S
CLEF$S
                                                                         ( TO FREE NEXT BUFFER
DH.FLG(R2)
     231 001166
232-001200
                                                                                                         :WAIT
                                                                          DH.FLG(R2)
     233
234
          001212
                    000752
                                                                          THXTRE -
                                                                                                         ;TRY-BUFFER-AGAIN
     235
     236
                                                      START OF DHR CONTINUATION RECORDS
         001214
001220
001224
001230
     237
238
                     012703
                               000010
                                                    STRTCT:
                                                               MOV
                                                                          #2*N.BFAC,R3
                                                                                                         :OPEN-OUTPUT-FILE-- MIN-2-BLOCKS-_;FILE-NUMBER-
                     012701
                               000040
                                                               MOV
                                                                          #FN.DHR,R1
     239
                                                               CALL
                                                                          OPENFL
     240
                     012715
                               046504
                                                    HEXTHD:
                                                               MOSZ
                                                                         #"DM,(R5)
SUST-2,2(R5)
                                                                                                         :EXCHANGE - ID
          001234
001242
                     116765
105065
                               177776G · 000002
000003
     241
                                                               MOVB
                                                                                                         :BATCH - NUMBER -
                                                               CLRB
                                                                          3 (R5).
     243
          001246
001252
                                                               CALL
                                                                                                         : WRITE · A · BLOCK ·
     244
                     005765
                               003776
                                                               TST
                                                                          M.BUFB-2(R5)
                                                                                                         :BRANCH IF LAST BLOCK
     245
246
          001256
                     001432
          001260
001264
     247
                                                    NEXTBF: CALL
                                                                          READMC -
                                                                                                         :READ NEXT BUFFER
                                                                                                        READ NEXT DOT C...
NO ERROR.
SERROR. - DELETE FILE
RETRY EXCHANCE
     248
                    103004
                                                               BCC:
                                                                          135
     249
          881266
                                                                          DLETFL
                                                               CALL
     250
251
          001272
                     000167
                               177260
                                                               JMP
                                                                          INLDMC
                                                                                                                                                               78
     252-001276
253-001302
                     022715
                              051530
                                                               CMP
                                                                          #"XS,(R5)
                                                    1$:
                    001005
                                                               BNE
                                            Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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DMCIN · · · M D · M: DHR · BUFFE	1110 27-MAF	R-80 13:24 P Appro		Release 2	2005/07/2 9 CIA-RDP85-005	514R000100030001-3
254 001304 255 001310 256 001314 257	012700 000 000761	3000		MOV: CALL: BR	#0.R0 GOSCHD NEXTBF	;SUX%-DONE ALLOWED TO INTERLEAVE. ;GET-NEXT-BUFFER.
258-001316 259-001322- 260-001324	001742	2110	2\$:	GMP · BEQ · CALL ·	#"HD,(R5) NEXTHD: DLETFL:	; URITE BUFFER TO FILE IF
261 001330 262-001334 263 001340 264		3274° 72 3 6	. DONE	MOV. CALL. JMP.	#ERR3,R0 COOUT: MSTRST: TINUATION:RECORDS:	; UNKNOWN · EXCHANGE · ; PARSE · EXCHANGE ·
265 001344 266 001350 267 001354		3452 <i>°</i> 3040	DONCHT:		#SDATA+2,R4 #SDATA+2,R4 #FN.DHR,R1 CLOSFL	:BUILD·FDSC·IN·SEND·PACKET· :FILE·NUMBER· :CLOSE·OUTPUT·FILE·
268 001360 269 001366 270 001372		0006 177063 7176		MOVB · CALL · JMP ·	#6.SDATA+1 GOHOTK HANGRD	COMMAND TO HOTSK
271 272			;			

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DMCIN---MACRO-M1110 27-MAR-80 13:24 PAGE-16 SUBROUTINES Approved Fo
                                                  Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
      274
275
276
                                                                       .SBTTL SUBROUT[NES
      277
278
                                                              GO:TO:SCHEDULER:IN SSQ:
INPUT:- R0: COMMAND:BYTE
      279
      280
           001376
                                                           GOSCHD: CALL
MOVB
                                                                                   GETFRE
                                                                                                                      ;GET-A-PACKET
;SOURCE-ID
      281
282
           001402
001410
                                   000006
                        112762
                                               000002
                                                                                   #XDMCIN,2(R2)
                        110062
                                   000003
177062
                                                                       MOVB
MOV
                                                                                   R0.3(R2)
UNITHB.4(R2)
                                                                                                                       :COMMAND
           001414
001422
      283
                        016762
                                               000004
                                                                                                                       :SU-NUMBER
      284
                                                                       ASR -
CALL
                                                                                   4(R2)
PUTSSQ
                       006262
                                   999994
      285
286
287
288
           001426
001432
                                                                                                                       :PUT-PACKET-TO-SCHED
                       000207
                                                              GO:TO:HOTSK:IN:RCVQ:
INPUT:- SDATA+1: COMMAND:BYTE:
SDATA+2: PACKET:DATA
      289
290
      291
292
      293
294
           001434
001442
                                   000006
                                               177006
                                                           GOHOTK: MOVB
                                                                                   #XDMCIN,SDATA
                                                                                                                      :COMMAND.SOURCE.
:SEND.DATA TO.HOTSK
                                                                       SDAT$C
BCC
                                                                                   HOTSK, SDATA
           001450
001452
                       103004
012700
      295
                                   000416
                                                           TSKERR:
                                                                       MOV
                                                                                   #ERR6,R0
                                                                                                                      :ERROR
            001456
                        000167
                                   000552
                                                                                   ERROR
           001462
      299
                                                            TSKGD:
                                                                       RSUM$C.
                                                                                   HOTSK
                                                                                                                      ;RESUME · HOTSK · BRANCH · IF OK ·
           001470
001470
001472
      300
                        103004
                                                                       BCC
CMP
                                                                                   1$
      301
302
                       026727
001364
                                                                                   $DSW_#IE.ITS
                                   000000G-000000G
                                                                                                                       ; IE. ITS ONLY ACCEPTABLE ERROR
                                                                       BHE
                                                                                   TSKERR.
      303
304
           001502
                        000207
                                                                       RTS
      305
      306
                                                              READ THE DMC - INTO BUFFER 0 OR 1 INPUT/OUTPUT - R5= BUFFER ADDRESS
      307
308
           001504
001554
                                                                                   #IO:RLB, #XMLUN, #EF:IO, #DMCIOS, <R5, #N:BUFB>
#IS:SUC,DMCIOS ;SUCESS?
      309
                                                                       QIOW$S
      310
                        122767
                                   000000G-176216
                                                                       CMPB -
           001562
001564
                       001424
122767
      311
                                                                       BEQ
                                                                                   1$
                                                                                                                      : YES
                                                                                                                      CONNECTION REJECTED?

YES, RETURN INTERESCEST: DEVICE NOT READY?
                                   000000G-176206
                                                                       CMPB
                                                                                   #IE.CNR,DMCIOS
      313
314
315
316
           001572
001574
                       001422
122767
                                                                       BEQ
                                                                                   2$
                                   000000G-176176
                                                                       CMPB
                                                                                   #IE.DHR,DMCIOS
           001602
001604
                       001416
122767
                                                                       BEQ
                                                                                                                      :YES, RETURN INIT REQUEST
:REQUEST ABORTED?
                                   000000G-176166
                                                                       CMPB
                                                                                   *IE:ABO,DMCIOS
      317
           001612
001614
                       001412
122767
                                                                       BEQ.
                                                                                   2$
                                                                                                                      :YES, RETURN INIT REQUEST :TIME OUT?
      318
                                   000000G·176156
                                                                       CMPB
                                                                                   #IE.TMO,DMCIOS
      319
           001622
001624
                       001406
012700
                                                                                                                      :YES:
:NO:- ERROR EXIT
      320
321
322
323
                                   000242*
                                                                                   #ERR2,R0
                                                                       MOV.
                       000167
           001630
                                   000400
           001634
001634
001636
                                                           1$:
     324
325
326
327
                       000241
000207
                                                                       OLO.
                                                                       RTS
           001640
001646
                                                                                   RØ,R1,R2
                                                                       SAVE
                       012700
                                   0004101
                                                                       MOV:
MOVB
                                                                                  #<ERR5T+22>.RØ
                                                                                                          :R0->OUTPUT STRING
:R1 = ERROR NUMBER
:DON'T SUPPRESS LEADING ZEROS
      328
          001652
001656
                       116701
                                   000001
                                                                       MOV-
CALL
                                                  Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      330
           001662
```

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-
- 1 型 (教):
                                                                                                                                                                                                                                                                                                                                                                 The state of the s
DMCIN---M 0-M1110 27-MAR-80 13:24 PAGE-16-1
SUBROUTIN Approved For F
                                                                                                        Approved For Release 2005/07/21 CIA-RDP85-00514R000100030001-3
             331
332
333
                                                                                                                                                   RESTOR RØ,R1,R2
SEC
RTS PC
                        001666
                        001674
001676
                                                  000261
                                                                                                                                                                                                                                                      :REQUEST-RE-INITIALIZATION
                                                 000207
                                                                                                                                                                                                                                                       :RETURN
             334
335
                                                                                                                                WRITE: A: SPOOL: FILE
INPUT: R4- ADDRESS OF: WHERE: TO: BUILD: FDSC
R5- ADDRESS OF: FIRST: BUFFER:
             336
337
                                                                                                                                                                                                                                                                                                                                                                                                  729 🧎
              338
              339
                                                                                                                                                                   FILE - NUMBER
              340
             341
342
343
344
345
                        001700
                                                 016503
                                                                                                                                                                            2(R5),R3
R3,BLKCNT
*M.BFAC,R3
                                                                          000002
                                                                                                                           WRTFIL: MOV
                                                                                                                                                                                                                                                      ; EXCHANGE - BLOCK - COUNT
                        001704
                                                  010367
                                                                                                                                                    MOV
                                                 070327
                                                                          999994
                                                                                                                                                    MUL
                                                                                                                                                                                                                                                      : # · OF · VIRTUAL · BLOCKS
                        001714
                                                                                                                                                    CALL
                                                                                                                                                                             OPENFL -
             346
347
                        001720
                                                                                                                           2$:
                                                                                                                                                    CALL
                                                                                                                                                                             MRIBLK
                                                                                                                                                                                                                                                      ;WRITE-BLOCK-TO-FILE
;BRANCH-IF DONE-
                                                 005367
                        001724
001730
                                                                                                                                                   DEC-
                                                                          176516
                                                                                                                                                                             BLKCHT
              348
                                                  001407
                                                                                                                                                                             3$
              349
                        001732
                                                                                                                                                    CALL
BCC ·
                                                                                                                                                                             READMO
                                                                                                                                                                                                                                                       : NEXT - EXCHANGE - BLOCK
             350
351
                        001736
001740
                                                                                                                                                                                                                                                      #NO ERROR - DELETE FILE 
#RETRY EXCHANGE
                                                                                                                                                                              2$
                                                                                                                                                    CALL
SEC:
                                                                                                                                                                             DLETFL
             352
353
                        001744
001746
                                                 000261
000207
                                                                                                                                                                             PC:
                                                                                                                                                    RTS
              354
             355
356
357
                        001750
001754
                                                                                                                                                    CALL.
                                                                                                                           3$:
                                                                                                                                                                            CLOSFL-
                                                                                                                                                                                                                                                      :CLOSE FILE
                                                 000241
                        001756
                                                 000207
                                                                                                                                                                            PC.
                                                                                                                                                    RTS
             358
359
360
                                                                                                                                OPEN-OUTPUT-FILE-
INPUT: R3- #-OF-VIRTUAL-BLOCKS-TO-ALLOCATE-
R1- FILE-NUMBER-
             361
362
             363
364
                        001760
                                                 005403
                                                                                                                           OPENFL: NEG FDAT$R
                                                                                                                                                                                                                                                      : INITIAL - ALLOCATION -
                        001762
001772
              365
                                                                                                                                                                            #0FILE,,,,R3
              366
                                                                                                                                                    CALL
                                                                                                                                                                            BLDNFL
                                                                                                                                                                                                                                                      ;BUILD FNB
             367
368
                        001776
002010
                                                                                                                                                    OFNB$W
                                                  103445
                                                                                                                                                   BCS -
                                                                                                                                                                            FILERR
                                                                                                                                                                                                                                                      ERROR
             369
370
                        002012
                                                  000207
                                                                                                                                                                            PC-
                                                                                                                                WRITE-A-BLOCK-TO-THE-FILE
INPUT: R5- BUFFER-ADDRESS
             371
372
373
             374
375
                                                                                                                           ŴRTBLK: WRITE$
                                                                                                                                                                            #OFILE,R5
                                                                                                                                                                                                                                                      : WRITE:
                        002030
002034
                                                                                                                                                   WAITS
CMPB
                                                                                                                                                                           #IS.SUC.SYIOS
FILERR
PC·
                                                 122767
001030
                                                                          000000G-175742
                                                                                                                                                                                                                                                      :TEST-SUCCESS
                        002042
                                                                                                                                                    BHE
                        002044
                                                 000207
                                                                                                                                                   RTS
                                                                                                                                CLOSE-FILE-- CREATE-FDSC-
INPUT: R4- ADDRESS WHERE-TO-BUILD-FDSC
R1- FILE-NUMBER-
             380
381
             382
              383
                                                                                                                                                                           #OFILE.R0 ;FDB.
F.FNB+N.FID(R0).FD.FID(R4) :BUILD FDSC
F.FNB+N.FID+2(R0).FD.FID+2(R4)
F.FNB+N.FVER(R0).FD.FVR(R4)
             384 002046
385 002052
                                                 012700
016064
                                                                         000010°
000102
                                                                                                                           ČLOSFL: MOV
                                                                                                   000000
                                                                                                                                                   MOV
                                                                                                  000002
000004
             386
                        002060
                                                 016064
                                                                          000104
                                                 016064
                                                                          000120
                                                                                                                                                   MOV:
                                                                                                        Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
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SUBROUTINES
                                             Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     388 002074
                     010164
                                000006
                                                                           R1,FD.FNB(R4)
          002100
002104
                                                                CLOSE$
BCS⋅
     389
                                                                                                            :CLOSE
                                                                           FILERR.
     391 002106
                     000207
                                                                 RTS
     391 002106
392
393
394
395 002110
396 002114
397 002120
                                                        DELETE . THE . FILE .
                                                      DLETFL: MOV-
CALL
                                                                           *OFILE,R0
.DLFNB
FILERR
                     012700
                                0000101
                                                                                                            :FDB
     396 002114
397 002120
398 002122
399
                                                                                                            ; DELETE
                     103401
                                                                BCS-
                     000207
     400
401
                                                        ERROR-WRITING-TO-FILE
     402
403
     403 002124
404 002130
405 002134
                                                                           *OFILE,R0
.DLFNB:
*ERR4,R0
                     012700
                                0000101
                                                      FILERR: MOV-
                                                                                                            :TRY-TO-DELETE
                                                                 CALL
                     012700
                                0003401
                                                                 MOV.
                                                                                                            :ERROR-MESSAGE-AND-EXIT-
     406
407
          002140
                     000435
                                                                 BR
     408
409
                                                      OUTPUT TO CONSOLE
     410
411
                                                      .
RØ=MESSAGE·BLOCK·ADDRESS:
                                                                                                                                            . 17. .
     412
413
     413 002142
414 002144
415 002152
                     012001
                                                                MOV
                                                                            (RØ)+.R1
                                                      CODUT:
                                                                                                            :MESSAGE ADDRESS AND LENGTH:
:IDENTIFY DMC:
                     116760
106260
                                176332
000005
                                           000005
                                                                 MOVB
                                                                            UNITHB.5(R0)
                                                                           5(R0)
                                                                 ASRB
     416 002156
417 002164
                      152760
                                000060
                                           000005
                                                                            #60.5(R0)
                                                                 QIOW$S.
                                                                           *IO:WLB, *COLUN, *EF:IO,,,, <R0.R1, *40>
                                                                                                                                  :MSG TO CONSOLE
     418 002232
                     000207
     419
420
     420
421
422
423
424
425
426
                                                      :ERROR-EXIT-
                                                      :R0=MESSAGE-BLOCK-ADDRESS-
                                                                                                                                           - P
                                                                GALL.
                                                      ERROR:
                                                                           COOUT-
                                                                                                            :MESSAGE TO CONSOLE
          002240
                                                                 EXIT$S
     427
428
     429
430
                     0005124
                                                                 .END-
                                                                            DMC IN-
```

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ADHROT
                                                000232
                                                                  010 ERR4T
            000504R
                                    B.HQRY
                                                                                                            FN.DBS
                                                                                                                        000022
                                                                                                                                          011 F.OVBS=-000030
011 F.RACC=-000016
011 F.RATT=-000001
BITMAP
                                                                                                            FN.DHR
FN.EMA
            000506R
                                    B:QLSZ
                                                000106
                                                                  010
                                                                       ERR5
                                                                                    000364R
                                                                                                                        000049
BITVAL=
BIT0 =
           равава
                                    B.QMAP
                                                000234
                                                                        ERR5L
                                                                                    000030
                                                                                                                        000012
            000001
                                                                                                                                               F.RCNM= 000001
F.RCTL= 000017
F.RSIZ= 000002
F.RTYP= 000000
                                    B.QSPL
                                                000316
                                                                  010
                                                                        ERR5T
                                                                                    000366R
                                                                                                            FN.EMB
FN.EMC
                                                                                                                        000014
BITE
            000002
                                    B.QTTM
                                                000076
                                                                        ERR6
                                                                                                                        000016
                                                                                                                                          011
BITIO
            002000
                                    BAQUQE
                                                                                                            FM.FSA
FM.FSB
                                                000056
                                                                  010
                                                                       ERR6L -
                                                                                    000026
                                                                                                                        папапа
                                                                                                                                                                                                1
                                    B.SFDB
B.SIZE
BITII
            авдава
                                                000010
                                                                  010
                                                                        ERR6T
                                                                                                                        000002
                                                                                                                                          011
                                                                                                                                               F.SEQN=
F.SPDV=
F.SPUN=
F.STBK=
                                                                       EXCHID
                                                                                                                                          011
                                                000772
                                                                  010
                                                                                    000150R
                                                                                                            ENVESC
                                                                                                                        000004
                                                                       FA.APD= 000100
FA.CRE= 000010
FA.DLK= 001000
FA.ENB= 100000
BIT13
            020000
                                    B.SHDF
                                                000012
                                                                  010
                                                                                                            FN.LGQ
                                                                                                                        000034
                                                                                                                                                            000072
                                    B.SSQ
                                                000004
                                                                  010
                                                                                                                        000036
000024
                                                                                                                                          011
011
                                                                                                            FN:LGU
                                    B.SSQF
B.STAT
                                                                  010
BIT15
            100000
                                                คคคครค
                                                                                                            FN.MFO
                                                                                                                                                            000036
                                                000044
                                                                                                                                          011 F.UNIT=-
011 F.URBD=-
                                                                                                            FN: MHR
                                                                                                                        000010
                                                                       FA.EXC=
FA.EXT=
FA.NSP=
FA.POS=
FA.RD =
                                                                  010
BIT3
            000010
                                    B. STIE
                                                000053
                                                                                    002000
                                                                                                            FN.NMB
                                                                                                                        000044
                                                                                                                                                            000020
                                    B.UDOC
                                                000110
                                                                                    000004
                                                                                                            FN:QLS
                                                                                                                        раварь
                                                                                                                                          011 F
011 F
                                                                                                                                                F.VBN = F.VBSZ=
BITS
            000040
                                    CF.B0
CF.B2
                                                000070
                                                                                   .000100
.010000
                                                                                                            FH.QRY
                                                                                                                                                            000060
BIT6
BIT7
            000100
                                                                                                            FN.SF0
                                                                                                                                                GETFRE=
GOHOTK
                                                                                                                        000030
                                                                                                                                          011
                                                                                                                                                            жжжжжж
            000200
                                                                                                            FN.SF1
FN.SHD
                                    CF:B4
                                                000066
                                                                                    999991
                                                                                                                                                            001434R
           000400
001000
BITS
                                    CF.B6
                                                000065
                                                                        FA.RWD≕
                                                                                    004000
                                                                                                                        000042
                                                                                                                                                GOSCHD-
                                                                                                                                                            001376R
000574R
                                                                        FA.SEQ= 040000
FA.SHR= 000040
FA.TMP= 000020
                                    CF:DR0=
                                                                                                            FOSRCV.
FO:APD=
                                               000064
                                                                                                                        000640R
                                                                                                                                                HANGRD
                                                                                                                                                BLDHFL=
                                    CF.DR1=
                                               000063
                                                                                                                        000106
            000446R
BLKCHT.
                                                                                                            FO.MFY=.
FO.RD.=.
                                    CH.AND= 000001
BS:CLS= 000002
BS:DBU= 000004
                                    CLOSFL
COLUN: =
                                                                         FA.WCK=
                                                                                    020000
                                                                                                                        000001
                                               000006
                                                                        FA.WRT= 000002
FD.BLK= 000010
                                                                                                            FO.UPD - 000006
                                                                                                                                                 IE.ITS= ****** GX
                                                002142R
BS.INA= 000000
                                    COOUT
                                                                                                            FO:WRT= 000016
                                                                                                                                                IE.ТМО= жжжжжжж GX
                                                                       FD.BLK-000018
FD.CCL-000002
FD.CCR-000000
FD.CR-0000002
FD.DIR-000010
FD.FID-000000
FD.FNB-000000
FD.FNH-000001
FD.FVR-000004
FD.FTI-0400004
FD.FII-0400004
FD.FII-040000
                                                                                                            F.ACTL = 000076
F.ALOC = 000040
F.BBFS = 000062
BS.OPH= 000001
                                    DBSLEN=
                                               000116
                                                                                                                                                 INLDMC 000556R
BS.SRC=
BYTE0 =
            000003
                                    DHRBUF
                                                001030R
                                                                                                                                                IO.INL= жжжжжж GX
IO.RLB= жжжжжж GX
BYTE0
            000000
                                    DHRCOM=
BYTE1
BYTE2
                                    DH.BF0
DH.BF1
            000001
                                                000002
                                                                                                             F.BDB.=
                                                                                                                                                IO.TRM= жжжжжж GX
                                                                                                                        000076
            000002
                                                                                                           F.BGBC=-000057
F.BKDN=-000026
                                                000004
                                                                  005
                                                                                                      003
                                                                                                                                                 DH.CTL
DH.DMC
                                                000000
                                                                  005
005
BYTE3
            дарараз
                                                                                                      003
            000004
                                                                                                            F.BKDS= 000020
F.BKEF= 000050
                                                                                                                                                M = 000062
MSTRST 000602
                                    DH.FLG
DLETFL
BYTES
            000005
                                                000006
                                                                  005
                                                                                                      003
                                                                                                                                                            000602R
                                                002110R
                                                                                                            F.BKP1= 000051
                                                                                                                                                N = 000002
NB.DEV= 000200
                                                000512R
000000R
                                                                        FD.INS=
BYTE7
            000007
                                    DMCTH
                                                                                    000010
                                                                                                                        000024
                                    DMCIOS
                                                                                    002000
                                                                                                              .BKVB=.000064
.CHR·=.000075
                                                                                                                                                NB.DIR- 000100
NB.NAM- 000004
BYTE9
            000011
                                    DH.DCK
                                                равара
                                                                  013
013
                                                                       FD.LEN
                                                                                    000010
BYTVAL
B.BSTA
            000012
                                                000004
                                                                        FD.MNT=
                                                                                    100000
                                                                                                              .CNTG=.000034
                                                                                                                                                NB.SD1= 000400
NB.SD2= 001000
                              ดาด
                                                                  013
013
                                                                        FD.OSP= 004000
FD.PLC= 000004
                                                                                                            F.DFNB=-000046
F.DSPT=-000044
            000054
                                   DH: HXT
                                                nananas
B.CHTX
B.CQUQ
            000046
                                    DH.ROT
                                                000002
                                                                                                                                                NB:SNM= 000040
                                                                                                            F.DVNM= 0000134
F.EFBK= 000010
F.EFN = 000050
                                                                                                                                                NB.STP= 000040
NB.STP= 000020
NB.SVR= 000010
NB.TYP= 000002
            000060
                              010
                                    DN:SIZ
                                                000010
                                                                  013
                                                                       FD.PRN= 000004
B. FEMA
            000132
                              010 DONCHT
                                                                         FD.PSE=
                                                                                    010000
B.FEMB
            000142
                                    DPL HN -
                              010
                                                999991
                                                                        ED.RAH= . 000001
                                                000752R
000702R
B. FEMO
            000152
                              010
                                    DTBEND
                                                                                    000002
                                                                                                             F.EOBB= 000032
                                                                                                                                                NB:VER= 000001
NEXTBF 001260
B.FFSA
            000202
                              010
                                   DUBSPL
                                                                        ED.REC= MANAGE
                                                                                                            F.ERR -- 000052
F.FACC- 000043
                                                                                                                                                            001260R
            000212
000222
                                   EF.IO
                                                                        FD.RWM= 000001
FD.SDI= 000020
BUFFSB
                              010
                                                000001
                                                                                                                                                NEXTHD.
                                                                                                                                                            001230R
                              010
                                                002234R
                                                                                                            F.FFRY= 000014
                                                                                                                                                N.BFAC= 000004
N.BHGH= 000006
                                                                                                            F.FNAM= 000110
F.FNB = 000102
F.FTYP= 000116
B. FMHR
            000172
                              010
                                   ERR1
ERR1L
                                                000204R
                                                                        FD.SQD= 000040
FD.TTY= 000004
B.FQLS
                              010
                                                000034
                                                                                    000004
                                                                                                                                                N.BTCH= 000004
N.BUFB= 004000
B.ESAZ
                                                000206R
000242R
            000100
                              010
                                   ERR1T
                                                                        FD.WBH= 000002
                                                                                                                                                N.BUFW= 002000
N.BUFW= 000024
B.FSBZ
B.FSCZ
                              010
                                    ERR2
                                                                        FF.CHR= 000005
                                                                                                            F. EVER = : 000120
            000104
                              010
                                   ERR2L -
                                                ававаза.
                                                                        FF NV. =
                                                                                    000003
                                                                                                            F.HIBK= 000004
F.LUN = 000042
B:HBLK
                              010
                                    ERR2T
                                                000244R
                                                                        FF.POE=
                                                                                    000002
                                                                                                                                                N.DVHM= 000032
N.FID⊤ •••000000
                                                                        FF.RWD= 000001
FF.RWF= 000006
                                                                                                              .MBCT= 000054
.MBC1= 000055
B. HDOC
            000114
                              010 ERR3
                                                000274P
B.HRLP
                              010
                                    ERR3L
                                                000041
                                                                                                                                                N.FNAM= 000006
N.FOS = 000764
N.FTYP= 000014
B. HRLR
           888122
                              010
                                    FERRIT
                                                000276R
                                                                        EF.SPC=
                                                                                    000004
                                                                                                                        000056
  .HRLW
                              010
                                                000340R
                                                                        FILERR -
                                                                                    002124R
                                                                                                            F.NRBD=-000024
                                                  00022 FN.DBR 000026 011 F.NREC = 000030
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B . HMBR
            000052
                              010
                                   ERR4L
                                                000022
                                                                                                                                                 N.FVER= 000016
```

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DMC IN -

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DMCIN MACRO M1110 27-MAR-80 13:24 PAGE 16-4
SYMBOL TABLE
                                                           Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                            002-STRTCT
002-ST.ASZ
002-ST.BSZ
002-ST.BTC
H:HEXT= 0000022
                                                        999196
                                          SRIARS
                                                                                                 001214R
                                                                                                                                                                       XBATCH= ∙ йййй 13
H.PKSZ=-000020
H.PKTS=-000043
                                          SR.DAY
                                                                                                                            S.FNBW=-000017
S.FNTY=-000004
S.FTYP=-000002
                                                                                                                                                                       XDBLOA= 000004
XDBPRO= 000012
                                                                                                 000020
                                          SR.DLT
SR.ECB
                                                        999914
                                                                                                 000024
                                                                                                                      006
N.QURY= 000031
N.STAT= 000020
                                                        000047
                                                                                                 000000
                                                                                                                      006
                                                                                                                                                                       XDMC IN= 000006
XFOSMR= 000007
                                                                            SR.ECH
                                                        000046
                                                                                                                      006
                                                                                                                             S.HRL
H.SUNT= 000002
H.UHIT= 000034
                                          SR.ECL
                                                        000050
                                                                                                                            S.NFEN= 000020
TABLSZ= 000007
                                                                                                                                                                      XGTSRE = 0000014
XHITSK = 000011
                                                                                                                      988
                                          SR:FIB
                                                        000012
                                                                                                                      006
              000010R
001760R
                                          SR.GRE
 OFILE
                                                        000100
                                                                                                                                                                      XHITSK= 000011

XHLMER= 000002

XHOTSK= 000010

XMLUN = 000002

XMSCHE= 000000

XQTS = 000001

XQTB = 000001
                                                                                                                      006
                                                                                                                             THXTBE -
                                                                                                                                           001140R
 OPENFL
                                                        000072
                                                                                                                      006
                                                                                                                             TSKERR.
                                                                                                                                           001452R
 PAR$$$= 000027
PUTSSQ= ******* G
QE.RO!= 000144
                                          SR.LEH
                                                        000122
                                                                                                                            TSKGD
UNITHB
WAITBF
                                                                                                                      006
                                                                                                                                           001462R
                                          SR.LIH
                                                        000066
                                                                                                                      006
                                          SR.LIP
                                                        000062
                                                                                                                      006
                                                                                                                                           001166R
 Q.FDSC
              000004
                                                                                                                                                               XUTS = 000003
012 XQT0 = 000001
012 XSULOA= 000005
012 $CBDSG = жнижжж GX
012 $DSW = жнижжж GX
012 $$$ = 000072R
                                   007
                                          SR: MON
                                                        000006
                                                                                                                             WH: HTP
                                          SR.HDC
SR.HDS
 Q.IOAE=-000012
                                                        000042
                                                                                                 жжжжж Ğ
                                                                                                                             WH.HXT
                                                                                                                                          0000006
 Q.IOEF=
              000006
                                                                                                                            WH.ROT
WH.SIZ
WH.SRC
WH.TYP
                                                        000036
                                                                            002 - SUST -
                                                                                              = · ******** G
                                                                                                                                           000002
 Q.IOFN= 000002
                                          SR.HIH
SR.HIP
                                                        000030
                                                                             002 · SUXDON ·
                                                                                                 000736R
                                                                                                                                           000010
 Q.IOLU= 000004
                                                                            002-SU.DBU=-000004
002-SU.DON=-000006
                                                        000022
Q.IOPL= 000014
Q.IOPR= 000007
                                          SR.SDB
SR.SRC
                                                        000032
                                                                                                                                                               012 $$$ARG = 000002
$$$OST = 000005
$$$T1 = 000005
.CLOSE = ********_G
                                                                                                                                           000001
                                                                                                                                                                                                                    The state of the state of
                                                                            002 SU.IDL = 000000
002 SU.LOD = 000001
                                                                                                                             WORD0 = 000000
WORD1 = 000002
                                                        000002
 Q.IOSB=-000010
                                          SR.SUN
                                                        000000
                                                                            002 SU SRC= 000002
002 SU SRR= 000005
002 SU SRP= 000003
002 SU XPD= 000004
 Q.NQBK
              000000
                                   997
                                          SR . THS
                                                                                                                             WORD2 - 000002
WORD2 - 000004
WORD3 - 000006
                                                        000056
                                                                                                                                          000004
Q.NUHL
Q.SIZE
              000002
                                          SR.WSL
                                                                                                                                                                       .DLFNB= · **************
              000014
                                          SR.YR
SP.1IN
SR.1IP
                                   007
                                                        000004
                                                                                                                             WORD4 = 000010
                                                                                                                                                                       .FINIT=_жжжжж<u>ж</u> С.
.FSRCB=_жжжжжжж С.
.OPFNB=_жжжжжжж"G
 READMO
              001504R
                                                        000024
                                                                                                                             UORD5 = 000012
WORD6 = 000014
WORD7 = 000016
 R.FIX.
                                                                            002 S.BFHD = 000020
004 S.DABA = 000006
004 S.DAEF = 000010
004 S.DATN = 000002
              000001
                                                        000016
R.SEQ -- 000003
R.SUTH- 000002
                                          SS.FID
SS.FNB
                                                        0000002
                                                                                                                                                                      . WAIT- = жжжжжж G
. WRITE = жжжжжж G
                                                                                                                             WORD8 = 000020
WORD9 = 000022
                                                        000010
 R. VAR - = - 0000002
                                          SSIFVR
                                                                                                                                                                      ...GBL = 000000
..PC1 = 000010R
..PC2 = 000150R
              000450R
 SDATA.
                                          SS:LEN
                                                       000012
                                                                            004 S.FATT= 000016
004 S.FDB = 000140
                                                                                                                             WRDVAL = 0000024
WRTBLK 002014
           = · ******** G
= · ******* G
 SN-
                                          SSISTT
                                                        000000
                                                                                                                                          992914P
 SRECPT=
                                          STATEC
                                                       000766R
                                                                                   S.FNAM= 000006
                                                                                                                                                                       ...TPC=-000020
 SR.ARE 000114
                                   002
 . ABS:
              попород
                                 000
               002246
                                  001
 SRCOFF
              000122
                                 002
 FDSCOF
                                  003
                                 004
005
 SUSCEE
              000012
 DHROFF
 STTOFF
              000044
                                  ดดร
 QSPLOF
              000014
                                  007
BSTOFF
              999772
                                 010
FNOFFS
WHODOF
              000010
                                 012
013
DNODOF
$$FSR1
              000010
              000000
                                 014
 SUBBER
              000100
                                  015
 ERRORS DETECTED:
VIRTUAL MEMORY USED: 7482 WORDS (30 P
DYNAMIC MEMORY: 9140 WORDS (35 PAGES)
ELAPSED TIME: 00:00:57
DMCIN, DMCIN/-SP=C20,13P,M,DMCIN
```

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SULOAD MACRO M1110 27-MAR-80 13:19
TABLE OF CONTENTS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

MACRO'S AND CONSTANTS ASSEMBLY-TIME DATA DEFINITIONS GET RECEIVE PACKET, INITIALIZE, SEND FILES

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SULOAD MO MITTO 27-MAR-80 13:19 PAGE-10

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.FITLE SULOAD SBTTL MACRO15 AND CONSTANTS:
.MCALL FD0F$L,FCSBT$,FDBDF$,FDBC$A MCALL FDBK$A,FD0P$A,FSRS2$,FINIT$
.MCALL FDBK$A,FD0P$A,FSRS2$,FINIT$
.MCALL SDAT$C,ROST$C
.MCALL SDAT$C,ROST$C
.MCALL MRKT$C,WTSE$C
.MCALL MRKT$C,WTSE$C
.MCALL MRKT$C,WTSE$C
.MCALL OFNB$R,READ$,WAIT$,CLOSE$

.MCALL DFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL SDAT$C,ROST$C
.MCALL MRKT$C,WTSE$C
.MCALL MRKT$C,WTSE$C
.MCALL MRKT$C,WTSE$C
.MCALL MRKT$C,WTSE$C
.MCALL DFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL SDAT$C,ROST$C
.MCALL MRKT$C,WTSE$C
.MCALL DFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL BFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL DFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL BFDBK$A,FDDP$A,FSRS2$,FINIT$
.MCALL BFDBK$A,FDDP$A,FSRS2$,FIN
```

```
SULOAD: MACRO:M1110 27-MAR+00 13:19 PAGE:11 ASSEMBLY+TIME:DATA:DEFINITIONS Approved Fo
                                                          Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
         21
22-0000000
23
24 000000
25 000000
                                                                                    .SBTTL- ASSEMBLY-TIME.DATA.DEFINITIONS.PSECT:
                                                                                    FDOF$L
                                                                                    FCSBT$
         25 000000
26 27
27 28 000000
29 000140
31 000140
32 000140
34 35 000140
                                                                      :INPUT-FILE-FDB
                                                                      FDB:
                                                                                    FDBDF$
                                                                                                 FD.RWM.
DATBUF,N.BUFB,,EF.IO,IOSTAT
                                                                                    FDRC$A -
FDBK$A -
                                                                                    FDOPSA DPLUN
                                                                                    FSRSZ$
                                                                                                  0
                                                                      ;MISC LOCATIONS
DATBUF: .BLKB
IOSTAT: .BLKW
                                                                                                                              :BLOCK-DATA-BUFFER
:I/O-STATUS-BLOCK-
:LUN-1 = XM0
:LUN-2:- XM1
:RECEIVE DATA-FROM MSCHED
:COMMAND
         36
37
38
39
              000140
004140
                                                                                                  N.BUFB
                                                                                                  2
              004144
                            000001
                                                                      XMLUN::
                                                                                    .WORD
              004146
004152
004154
         40
41
42
44
45
44
47
48
49
55
55
54
                                                                      RDATA:
                                                                                                  2000
                                                                                                                              :COMMAND
:BATCH + #
:JUNK -
:SU#-
                                                                                     JUNED.
                                                                                    .BYTE
                                 000
              004155
004156
                            000000
                                                                                                  0
10.
                                                                                     .WORD
             004156
004160
004204
004206
004210
                                                                                     .BLKW
                                 005
                                               000
                                                                      SDATA:
                                                                                    .BYTE
                                                                                                  5.0
                                                                                                                              :SEND DATA TO XSCHED
                            000000
                            равава
                                                                                    .WORD
                                                                                                  ā
              004212
                            000000
                                                                                    .WORD
                                                                      :ERROR MESSAGES
ERR1: .WORD
             004214
004216
004221
004224
                            000022
                                                                                                 ERR II
                                                             114
104
104
113
122
122
                                 123
117
                                               125
101
                                                                                    .ASCII
                                                                                                 /SULOAD: DISK ERROR/
                                               040
123
105
117
                                 072 \\ 111
              004227
              004232
                                 040
                           122
000022
              004235
         55
56
57
58
59
                                                                      ERRIL = . - ERRIT
                                                                                    .EVEN
             004240
004242
004245
004250
004253
004256
                            000031
                                                                                    .WORD
                                                                                                 ERR2L
                                 123
117
072
                                               125
101
                                                             114
                                                                                    .ASCII
                                                                                                 /SULOAD: DMC-WRITE-FAILURE/
                                                             104
                                               040
103
                                 115
127
                                                             040
                                                             111
              004261
004264
004267
                                 124
106
                                                105
                                                             949
                                               101
                                                             111
                                  114
              004272
                                  105
         60
                           000031
                                                                      ERR2L=.-ERR2T
        61
62
63
                                                                                    .EVEN
        63 004274
64 004276
                            000020
                                                                                    .WORD
                                                                                                 ERR3L
                                                           114 ERR3T: ASCII: ZSULOAD: LINK: INLZ:
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                 123
                                               125
```

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SULDAD: MACRO:M1110 27-MAR-60 13:19 PAGE:12:
GET:RECEIVE:PACKET: INITIALIZE: SEABPFÓVEG:For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                                                                           .SBTTL - GET-RECEIVE PACKET, INITIALIZE, SEND-FILES
             80
             81
                     004330
                                                                                                       SULOAD:
             82
                    004330
                                                                                                                          FINIT$
              83
             84 004334
                                                                                                       NXTRCV: RCVX$C .RDATA
                                                                                                                                                                                                            :GET-RECEIVE-PACKET-
                    004342
                                         016767
062767
                                                                                                                                               RDATA+0.,XMLUN
             86
                                                              177610
                                                                                  177574
              87
                     004350
                                                              000001
                                                                                  177566
                                                                                                                           ADD
                                                                                                                                               #1,XMLUN
              89
                     004356
                                          116705
                                                                                                                           MOVB
                                                                                                                                              RDATA+6.R5
                                                                                                                                                                                                            :BATCH:NUMBER:
:FDSC:OFFSET:TABLE:
:R3 =:SU:NUMBER:
                     004362
              90
                                         912794
                                                              994316
                                                                                                                           MOV.
                                                                                                                                               #FDSCID.R4
             91
92
                     004366
                                         016703
                                                                                                                          MOV.
                                                                                                                                               RDATA+8..R3
                                                                                                                                                                                                                                                                                                                                      Ŧ,
             93
94
                                                                                                                FIRST, LOAD-HRL-TO-SU
             95
96
                     004372
                                                                                                                           GALL
                                                                                                                                              LDHRL
                                                                                                                                                                                                            :LOAD-HRL
                                                                                                                                                                                                                                                                                                                77
              97
                                                                                                       :TOP.OF.LOOP.FOR.EACH.CONTROL.TABLE.FILE
                                                                                                                                                                                                                                                                                                                            17 28
                     004376
                                                                                                                                                                                                           :FDSC:OFFSET:IN:BST:
:ALL:FIVE:TABLES:LOADED:
:FDSC:ADDRESS:IN:BST
:INPUT:FILE:FDB:
              98
                                         012401
                                                                                                                                              (R4)+.R1
LDONE
                                                                                                      HXTFIL: MOV
                                                                                                                                                                                                                                                                                                                                           1
                     004400
004402
             99
                                         001534
                                                                                                                          BEQ
            100
                                                             000000G
                                         866581
                                                                                                                           ADD
                                                                                                                                               BSTPTR(R5),R1
            101
                     004406
                                         012700
                                                              000000'
                                                                                                                                               #FDB,R0
                                                                                                                           MOV
                                                                                                                                                                                                           #BUILD-FNB IN-FDB-
#OPEN-FILE
#OPEN-FAILURE-
##-OF-SECTORS-IN-FILE
                     004412
004416
            103
                                                                                                                           CALL
                                                                                                                                              BLDEFL
            104
                                                                                                                           OFHB$R
                     004430
004432
                                                                                                                          BCS
MOV
            105
                                          103433
                                                                                                                                              F.EFBK(R0),R2
F.EFBK+2(R0),R3
            106
                                         016002
                                                              000010
            107
108
                     004436
004442
                                         016003
                                                              000012
                                                                                                                           MOV
                                          162703
                                                              000001
                                                                                                                           SUB
                                                                                                                                               #1.R3
                     004446
004450
            109
                                          005602
                                                                                                                                                                                                            :#.OF.BLOCKS.
;EMPTY.FILE.
;NOT.MULTIPLE.
           110
                                         871227
                                                              прирада
                                                                                                                                               #M.BFAC.R2
                                                                                                                           DIM
                    004454
004456
           111
112
                                          001421
                                                                                                                           BEQ
                                                                                                                                               DSKERR-
                                         005703
                                                                                                                           TST
            113
                     004460
                                          001017
                                                                                                                                               DSKERR-
                                                                                                                                                                                                                   OF N.BFAC
                                                                                                                           BNE
           114
                                                                                                                          LOOP · FOR · EACH · BLOCK
            115
                                                                                                       :TOP-OF
           116
117
                     004462
                                                                                                                          READ$
WAIT$
                                                                                                                                                                                                            :READ · FIRST · BLOCK ·
                    004466
004472
            118
                                         010267
                                                              173444
                                                                                                                           MOV
                                                                                                                                               R2,DATBUF+2
                                                                                                                                                                                                            :STUFF - BLOCK - COUNT - IN - FIRST - BLOCK -
             19
                     004476
                                                                                                                                               TSTRED.
                                                                                                                                                                                                            :CONTINUE
            120
            121
122
                    004500
004504
                                                                                                       ŔEDFIL:
                                                                                                                          READ$
                                                                                                                                                                                                            :READ-NEXT BLOCK
                                                                                                                           LIA I T$
                                         122767
001403
012700
000514
                    004510
004516
            123
                                                              000000G · 177422
                                                                                                       TSTRED:
                                                                                                                                               #IS.SUC.IOSTAT
                                                                                                                                                                                                            :SUCCESS$
            124
                                                                                                                           BEO
                                                                                                                                              DSKOK
#ERR1.R0
                                                                                                                                                                                                            : YES
: ERROR
           125
                     004520
                                                              004214
                                                                                                       DSKERR:
                     004524
                                                                                                                           BR
                                                                                                                                               ERROR
                     004526
                                                                                                                           QIOW$S
                                                                                                                                              #IO.WLB.@#XMLUN.#EF.IO,
#IS.SUC.IOSTAT
                                                                                                       DSKOK:
                                                                                                                                                                                                         .#IOSTAT,,<#DATBUF,#N.BUFB>
;SUCCESS?
           129
                    004600
                                          122767
                                                             000000G-177332
                                                                                                                           CMPB.
            130
                    004606
                                         001423
                                                                                                                          BEO
                                                                                                                          CMPB
BEQ:
                                                                                                                                              #IE.CHR.IOSTAT
           131
                    004610
                                         122767
                                                             000000G-177322
                                                                                                                                                                                                            :RECOVERABLE ERROR?
           132
133
                    004616
004620
                                         001443
                                          122767
                                                             000000G-177312
                                                                                                                           CMPB
                                                                                                                                              #IE.DHR.IOSTAT
                                                                                                                                                                                                                                                                                                      The state of the s
                   004626
004630
                                         001437
                                                                                                                          BEQ
                                                                                                                                                                                                                                                                           18.77-197 F
                                                                                                                                                                                                                                                                                                 * |
                                                             000000G · 177302 ·
                                                                                                                                               #IE.TMO.IOSTAT
           135
                                                                                                                          CMPB
                                                                                      Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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SULDAD: M1110 27-MAR-80 13:19 PAGE: 12-1
GET: RECEI PACKET: INITIALIZE: SEAPPFÖVEG: For Release 2005/07/28 CIA-RDP85-00514R000100030001-3
     136 004636
                                                                        LNKRST:
#IE:ABO:IOSTAT
LNKRST:
#ERR2:RØ
                     001433
                                                               BEQ.
     137 004640
138 004646
                     122767
001427
                               000000G-177272
                                                               CMPB
                                                               BEQ
     139
          004650
                     012700
                                                              MOV
                                                                                                        : FRROR-
     140
          004654
                     000440
                                                              BR
                                                                         ERROR
     141
                                                                                                                                                                    44
     142
          004656
                     077270
                                                    1$:
                                                              SOB
                                                                         R2.REDFIL
                                                                                                        ; CONTINUE - WITH - FILE -
     143
                                                    ;
;READ·ENTIRE·FILE·
CLSFIL: CLOSE$ #FDB
     144
     145 004660
                                                                                                        :CLOSE·FILE·
:GET·NEXT·CONTROL·TABLE·FILE·
      146
          004670
                    000642
                                                              BR
                                                                        NXTF IL
     147
     148
     149
150
151
152
                                                              ACK-SCHEDULER, ALL-THE TABLES-LOADED-
          004672
004672
                                                    LDONE:
                                                              CALL
MOV:
                                                                         GETFRE
#5,2(R2)
                                                                                                        ; GET · FREE · PACKET
     153 004676
154 004704
                     012762
                                                                                                        000005
                                          000002
                               177244
177240
                                                              MOVB -
                     116762
                                         999994
                                                                         RDATA+6.,4(R2)
     155
156
157
158
159
160
          004712
004720
                                         000006
                                                                         RDATA+8.,6(R2)
                                                              CALL
BR
                                                                        PUTSSQ
NXTRCY
          004724
                     000603
     161
162
                                                    RECOVERABLE LINK ERROR
          004726
004732
004736
     163
                     012700
                               0042741
                                                              MOV-
                                                                                                        ; ERROR · MESSAGE
                                                                        COOUT.
EF.10,60.,1
EF.10.
-(R4)
                                                              CALL
     165
                                                              MRKT$C.
WTSE$C.
                                                                                                        :WAIT-FOR-OTHER-END-TO-RECOVER
     166
167
          004744
004752
                     005744
                                                              TST
                                                                                                        :BACK · OFF · TABLE · POINTER
     168 004754
169
170
171
                    000741
                                                                         CLSFIL
                                                                                                        :CLOSE FILE AND RESEND
                                                    :ERROR:MESSAGE:EXIT:- R0:ERROR MESSAGE:ADDRESS
     172
173 004756
174 004762
                                                    :
ERROR:
                                                              CALL:
                                                                         COOUT-
                                                                                                        :MSG - TO - CONSOLE
                                                              EXIT⊈S
     176
     177
178
                                                    SEND MESSAGE TO CONSOLE
          004770
                    012001
                                                    COOUT:
                                                              MOV
                                                                         (RR) + .R1
                                                                                                        :MSG-ADDRESS-AND-LENGTH
     180 004772
                                                              QIOW$S
                                                                         #IO.WLB,#COLUN,#EF.IO,,,,<R0,R1,#40>
                                                                                                                            :MSG TO CONSOLE
     181
182
          005040
                    000207
                                                              RTS
     184
                    0043301
                                                               .END
                                                                         SULOAD
                                                                                                                                                       ÷
                                                                                                                                                  J. V
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SULOAD: MACRO:M1110 27-MAR-80 13:19 PAGE:12-2:
SYMBOL:TABLE: Approved For R
                                                           Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                             010 FA.RD--000001
010 FA.RWD--004000
010 FA.SEQ--04000
010 FA.SHR--000040
BITVAL = . 000000
                                          B.QMAP
B.QSPL
                                                         000234
                                                                                                                               EN.SEØ
                                                                                                                                                                  011 IE.ABO= жжжжжж GX
                                                                                                                                             ВВВВВЗВ
                                                         000316
                                                                                                                               FN.SF1
FN.SHD
                                                                                                                                             000032
                                                        000076
BIT1
              000002
                                           BIGITTM
                                                                                                                                                                         IE.DNR= жокожож GX.
IE.TMO= жокожож GX.
IE.TMO= жокожож GX.
IO.SLA= жокожож GX.
IS.SUC= жокожож GX.
LDHRL = жокожож GX.
LDHRL = далбез GX.
                                                                                                                                            000042
                                                                                                                                                                  011
BITIO
                                           B.QUQP
                                                         000056
                                                                                                                               FO.APD= 000106
                                                                             010 FA.TMP= 000020
010 FA.WCK= 020000
010 FA.WRT= 000002
BITII
              884888
                                          B.SFDB
B.SIZE
                                                        000010
000772
                                                                                                                               F0.MFY= 000002
BIT12
BIT13
              010000
                                                                                                                               FO.RD = 000001
FO.UPD= 000006
                                           B.SNDP
B.SSQ
              020000
                                                         000012
BIT14
               040000
                                                         000004
                                                                                                                              F0.WRT=-000016
F.ACTL=-000076
F.ALOC=-000040
F.BBFS=-000062
                                                                             010 FDB.
                                                                                                   рававав
                                                                             010 FDSCID 004316F
010 FD.BLK= 000010
010 FD.CCL= 000002
                                           B.SSQF
B.STAT
                                                        000050
BIT15
               100000
                                                                                                   004316R
                                                                                                                                                                                      004672R
004726R
                                                                                                                                                                         LDONE
                                                                                                                                                                         LNKRST-
BIT3
                                                        000053
000110
              000010
                                           BISTTE
                                                                                                                                                                        M. KTAE = 000062
M. KTAE = 000010
M. KTEF = 000002
M. KTMG = 000004
                                           B.UDOC
                                                                                    FD.COM= 020000
FD.CR = 000002
FD.DIR= 000010
                                                                                                                               F.BDB - 000070
F.BGBC - 000057
                                                                              010
                                           CF.B0
CF.B2
                                                        000070
000067
BIT5
              000040
BIT6
                                                                                                                       F.BKDN= 000026
003 F.BKDS= 000020
BIT7
              000200
                                           CF:84 =
                                                        000066
                                                                                     FD.FID.
                                                                                                  000000
                                                                                                                                                                        M.KTUN= 000006

N. = 000000

NB.DEV= 000200

NB.DIR= 000100

NB.NAM= 0000044

NB.SDI= 000400
                                           CF.B6 = 000065
CF.DR0= 000064
CF.DR1= 000063
              000400
BITS
                                                                                                                       003 F.BKEF= 000050
F.BKP1= 000051
                                                                                                  000006
                                                                                    FD.FN8- 000001
FD.FVR- 000001
FD.FVR- 040000
FD.FNS- 040000
FD.INS- 000010
FD.ISP- 000010
FD.LEN- 000010
BIT9
              001000
BLDEFL= · ******** G · BSTPTR= · ******* G ·
                                                                                                                       003 F.BKST= 000024
F.BKVB= 000064
                                          CH:AND= 000001
CLSFIL 004660
BS.CLS= 000002
BS.DBU= 000004
                                                        004660R
                                                                                                                               F:CHR-=-000075
F:CHTG=-000034
                                                                                                                                                                        NB.SDI=-000400
NB.SDZ=-001000
NB.SNM=-000040
NB.STP=-000020
NB.STP=-000010
NB.TYP=-000002
                                           COLUN: =
                                                         рававь
BS:INA= 000000
BS:OPN= 000001
                                           COOUT
                                                                                                                       003 F.DFNB= 000046
                                           DATBUF
                                                                                    FD.MNT=.
FD.OSP=.
                                                                                                  · 100000
· 004000
                                                        000140R
                                                                                                                                  DSPT= 000044
                                                        000116
BS.SRC= · 000003
                                           DBSLEN=
                                                                                                                               F.DVNM= 000134
F.EFBK= 000010
F.EFN = 000050
BYTEØ
              000000
                                                                             005 FD.PLC= 000004
005 FD.PRN= 000004
005 FD.PSE= 010000
                                           DH.BF0
                                                        000002
BYTE1
BYTE2
BYTE3
              000001
                                           DH.BF1
                                                         000004
                                                                                                                                                                        NB.VER= 000001
NXTFIL 004376R
NXTRCV 004334R
N:BFAC= 000004
              000002
                                           DH.CTL
                                                                                                                               F.EOBB=-000032
F.ERR-=-000052
                                                         000000
                                           DH.DMC
DH.FLG
              ававаз
                                                         000010
                                                                              005
                                                                                    FD.RAH= 000001
BYTE4
BYTE5
                                                         000006
                                                                             005
                                                                                    FD.RAN= 000002
                                                                                                                               F.FACC= 000043
F.FFBY= 000014
                                                                             013 FD.REC=-000001
013 FD.RWM=-000001
              000005
                                           DN: DCk
                                                         000000
                                                                                                                                                                        N.BHGH= 000006
N.BTCH= 000004
BYTE6
BYTE7
                                           DH.HTP
                                                         000004
                                                                                                                               F.FNAM= 000110
F.FNB = 000102
                                                                             013 FD.SDI= 000020
013 FD.SQD= 000040
              000007
                                           DHINXT
                                                         ававав
                                                                                                                                                                         N.BUFB= 004000
BYTE8
BYTE9
              000010
                                           DN.ROT
                                                         000002
                                                                                                                              F.FTYP= 000116
F.FVER= 000120
                                                                                                                                                                         N.BUFW= 002000
                                                                                    FD.TTY= 000004
FD.WBH= 000002
              000011
                                           DH.SIZ
                                                         nana ta
                                                                             013
                                                                                                                                                                        N.DID = 000024
N.DVHM= 000032
N.FID = 000000
BYTVAL
              000012
                                                         000003
                                                                                                                              F.HIBK= 000004
F.LUN = 000042
B.BSTA
                                   010 DSKERR
              000054
                                                        004520R
                                                                                    FF.CHR= 000005
FF.NV = 000003
B. CHTX
              000046
                                   010 DSKOK
                                                         004526R
                                                                                                                              F.MBCT= 000054
F.MBC1= 000055
                                                                                                                                                                         N.FNAM=
                                                                                                                                                                                      000006
B.CQUQ
                                                                                                                                                                                                    - 1 A.
              000060
                                   010
                                          EF. 10-
                                                        000001
                                                                                     FF.POE = 000002
                                                                                                                                                                        N.FOS - 00006
N.FOS - 000764
N.FVER - 000016
N.FVER - 000022
N.PKSZ - 000020
N.PKTS - 000043
B.FEMA
               000132
                                   010
                                          ERROR
                                                        004756R
                                                                                     FF.RWD= 000001
                                                                                                                              F.MBFG= 000056
F.NRBD= 000024
B.FEMB
              000142
                                   010 FRR1
                                                        004214R
                                                                                    FF.RWF= 000006
FF.SPC= 000004
B.FEMC
B.FFSA
              000152
                                          ERRIL.
                                                                                                                       F:NREC=-000034
F:NREC=-000030
011 F:0VBS=-000016
011 F:RACC=-000016
                                   010
                                                        000022
              999292
                                   010
                                          ERRIT-
                                                        004216R
                                                                                     FM.DBR
                                                                                                  000026
B.FFSB
              000212
                                   010
                                          ERR2
                                                         004240R
                                                                                     FH.DBS
                                                                                                  000022
B.FFSC
              000222
                                   010 FRR2L -
                                                        000031
                                                                                     FH.DHR
                                                                                                   000040
                                                                                                                                                                        N.QURY= 000031
                                                                                                                      011 F.RATT= 000001
011 F.RCNM= 000034
011 F.RCTL= 000017
011 F.RSIZ= 000002
011 F.RTYP= 000000
011 F.SEON= 000100
011 F.SPDV= 000072
B.FMHR
              000172
                                          ERR2T
                                                                                                                                                                                      000031
000020
000002
000034
                                   010
                                                        004242R
                                                                                     FN.EMA
                                                                                                  000012
                                                                                                                                                                         N.STAT=
                                                        004274R
B.FQLS
              000162
                                   010 ERR3
                                                                                     FH.EMB
                                                                                                   000014
B.FSAZ
B.FSBZ
              000100
                                   010
                                          ERR3L
                                                        000020
                                                                                    FH.EMC
                                                                                                  000016
              000102
                                   010 ERR3T:
                                                        004276R
004762R
                                                                                    FM.FSA
FM.FSB
                                                                                                                                                                        PAR$$$= 000027
PUTSSQ= ************ GX-
B.FSCZ
B.HBLK
              000104
                                          EXIT
                                   010
                                                                                                                                                                        000002
                                   010 FA.APD= 000100
010 FA.CRE= 000010
                                                                                    FM.FSC
FM.LGQ
              000120
B.HDOC
B.HRLP
              000114
                                                                                                  000034
                                                                                                                                                                                       000004
                                                                                                                                                                                                            007
              000126
                                   010 FA.DLK= 001000
010 FA.ENB= 100000
                                                                                    FM.LGU
                                                                                                  000036
000024
                                                                                                                              F.STBK=
                                                                                                                                            000036
                                                                                                                                                                                                           007
007
                                                                                                                                                                         0.NORK
                                                                                                                                                                                       попород
B. HPLP
              000122
                                                                                    FH.MFO
                                                                                                                       011
                                                                                                                              F:UNIT= 000136
                                                                                                                                                                         Q.NUHL
                                                                                                                                                                                       000002
                                                                                                                       011 F.URID= 000020
011 F.URBD= 000020
011 F.VBN = 000064
011 F.VBSZ= 000060
              000124
                                   010 FA.EXC= 002000
010 FA.EXT= 000004
                                                                                                  000010
                                                                                    EN.MHR
                                                                                                                                                                        0.SIZE 000014 007 007 0041468 007
B. HMBR
              000052
                                                                                    FH.HMB
              000232
                                   010 FA: NSP= 000100
                                                                                    FM.QLS
FM.QRY
                                                                                                  000006
                                                                                                                                                              - TT REDFILM 004500RG TO TO A
                                                           19900 FN. GRY 990029 011 GETFRE 8000000 GX. REPTEN 9940901
Approved For Release 2005/07/24 CIA-RDP85-00514R000100030001-3
B.QLSZ
             000106
```

```
SULDAD.
                     0.M1110 27+MAR-80 13:19 PAGE:12+3
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R.SEQ---000003
                                            SR.SDB
                                                          000032
                                                                                002-ST.XLT-
                                                                                                     000014
                                                                                                                           006 WH.ROT
                                                                                                                                                                      012 · XHITSK = · 000011
                                           SR.SDB
SR.SRC
SR.SUN
SR.TWS
SR.WSL
R. VAR - = - 0000002
                                                           000002
                                                                                002 SULOAD
                                                                                                      004330R
                                                                                                                                  WM.SIZ
WM.SRC
                                                                                                                                                                      012 XHLMER= 012 XHOTSK=
                                                                                                                                                 999919
                                                                                                                                                                                            000002
R.VXBA= 000006
R.VXTN= 000002
                                                          000000
                                                                                002 · SU. DBU = · 000004
002 · SU. DON = · 000006
                                                                                                                                                 000000
                                                                                                                                                                             XH015N
XMLUN 004147
XMSCHE = 000000
YOTS = 000003
                                                          000056
                                                                                                                                   WN: TYP
                                                                                                                                                 000001
                                                                                                                                                                      012
SDATA
SR.ARE
               004204R
                                                                                002 SU.IDL = 000000
002 SU.LOD = 000001
002 SU.SRC = 000002
002 SU.SRR = 000005
004 SU.XPD = 000003
                                                           000052
                                                                                                                                   WORD0 =
                                    002 SR, YR
002 SR, 1IN
002 SR, 1IP
002 SS, FID
002 SS, FNB
002 SS, FVR
              000114
                                                           000004
                                                                                                                                   WORD1 =
                                                                                                                                                . 000002
SR.ARS
SR.DAY
               000106
                                                          000024
                                                                                                                                  WORD2
WORD3
               000010
                                                           000016
                                                                                                                                                000006
                                                                                                                                                                              XSULOA=
                                                                                                                                                                                            000005
SR.DLT
SR.ECB
               000014
                                                           000002
                                                                                                                                  WORD4 = 000010
WORD5 = 000012
                                                                                                                                                                              $$$
                                                                                                                                                                                         = · 000022R
                                                                               004 S.BFHD= 000020
004 S.FATT= 000016
004 S.FDB== 000140
004 S.FNAM= 000006
               000047
                                                                                                                                                                             $$$ARG=.00002;
$$$OST=.000004
$$$TI=.000000
.CLOSE=.******
                                                          000010
 SR:ECH
               ававая
                                                           000006
                                                                                                                                  WORD6 = 000014
WORD7 = 000016
 SR.ECL
               000050
                                     002 - SS. LEN
                                                           000012
                                    002-55,LEN
002-SS.STT
002-ST.ASZ
002-ST.BSZ
002-ST.BTC
 SR. FIB
               000012
                                                           000000
                                                                                                                                  WORD8 - 000020
WORD9 - 000022
 SR.GRE
               000100
                                                                               006 S.FNB = 000036
006 S.FNB = 000017
006 S.FNTY = 000004
006 S.FTYP = 000002
                                                          กกกกวก
                                                                                                                                                                              .FINIT= · жижижиж
                                                                                                                                                                             FINIT= жококок G
FSRCB= жококок G
OPFNB= жококок G
READ = жокожок G
WAIT = жокожок G
 SR.GRS
               000072
                                                           000024
                                                                                                                                  WRDVAL = 0000024
W:TSEF = 000002
 SR.LEH
               000122
                                                          апапапа
SR.LIH
SR.LIP
               999966
                                                                                                                                  XBATCH= 000013
XDBLOA= 000004
               000062
                                                                               006 S.HRL = 000240
006 S.HREN = 000240
006 TSTRED 004510
006 UN.HTP 000004
                                     002-ST.HRL
                                                          000010
                                    002 ST.LEN
002 ST.QRY
002 ST.QSZ
               000006
000042
 SR.MON
                                                           000044
                                                                                                                                                                             ...GBL=-000000
...PC1=-000000R
...PC2=-000140R
                                                                                                                                  XDBPR0 = 000012
XDMCIN = 000006
 SR.HDC
                                                          000002
                                                                                                     004510R
SR: HDS
               имимизе
                                                                                                     000004
                                                                                                                           012 XF0SMR = 000007
 SR.HIH
               000030
                                    002
                                           STISCH
                                                          000040
                                                                                006
                                                                                      WM.HXT
                                                                                                     000006
                                                                                                                           012 · XGTSRE = · 000014
                                                                                                                                                                              ...TPC=-000020
SR.NIP
              000022
                                    002
                                           ST.UHL
                                                          000004
 . ABS.
               ававав
                                  000
001
               005042
SRCOFF
               000122
                                  002
FDSCOF
SUSOFF
                                   003
              000012
                                  004
DHROFF
               000012
STTOFF
              000044
                                  006
QSPLOF
BSTOFF
              000014
              000772
                                  010
FNOFFS
              000044
WHODOR
                                  012
013
              000010
DHODOF
$$FSR1
              000000
                                  914
$DPB$$ 000026
ERRORS DETECTED:
                                  015
                                0
VIRTUAL MEMORY USED: 7159 WORDS (.28 PAGES)
DYNAMIC MEMORY: 8884 WORDS (31 PAGES)
ELAPSED TIME: 00:00:47
SULOAD, SULOAD -SP-E20, 13P, M, SULOAD
```

18 mg

-T0787 J702

G

LDHRL: M

0 M1110 27-MAR-80 13:20 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

ASSEMBLY-TIME DATA DEFINITIONS BUFFER CONTROL ROUTINES

11- 34 15- 184

```
MACRO · M1110 27-MAR-80 13:20 PAGE · 10
Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
LDHRL.
           12345678910112314516
                                                                                                       .FITLE - LDHRL
                                                                                                                      FDOF$L.FCSBT$.FDBDF$.FDRC$A.FDBK$R
FDBK$A.FDDP$A.FSRSZ$.FINIT$
RCVX$C.ALUN$S.QIOW$.QIOW$S.EXIT$S
SDAT$C.RQST$C.DIR$.ASTX$S
MRKT$C.WTSE$C
OFNB$R.READ$.WAIT$.CLOSE$.WRITE$
                                                                                                       .MCALL.
                                                                                                       MCALL .
                                                                                                        .MCALL
                                                                                                       .MCALL
                                                                                                        .GLOBL BLDEFL.BSTPTR
                                                                                                      LUNS:
                                  000003
000006
                                                                                     ĎPLUN=3
                                                                                     COLUN=6
                                                                                                      MISC-EQUATES : I/O EVENT-FLAG
                                                                                     ÉF. IO=1
          000001
                000000
000000
000004
000006
0000007
000012
000014
                                                                                                        .PSECT
                                                                                                                        IOCBOF, ABS
                                                                                                                                                                         :I/O STATUS BLOCK
:ADDRESS OF FDB:
:ADDRESS OF EVENT FLAG:
:TYPE OF I/O:
CURRENT LOGICAL BLOCK:
:LAST BLOCK (IF URAP AROUND)
:ADDRESS OF BUFFER CURRENTLY IN USE.
:BDB OFFSET OF NEXT ENTRY FOR ASSIGNMENT
:FILE'S FIRST BDB INDEX.
:FILE'S LAST BDB INDEX.
                                                                                     IOST:
FDBAD:
                                                                                                      .BLKW.
                                                                                     EVNT:
ATTR:
                                                                                                       .BLKB.
.BLKW.
                                                                                     CBLK:
                                                                                     CBUF:
MXTG:
                                                                                                        .BLKW
                000016
                                                                                                       .BLKW.
.BLKW.
                                                                                     HXTR:
IBDB:
                000022
000023
                                                                                                       .BLKB
.PSECT-
                                                                                     LBDB:
                 000000
```

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TAX TO

479.4 479.4

```
LUMKL: MG
ASSEMBLY-
                    0-M1110 27-MAR-80 13:20 PAGE-11
E-DATA-DEFINITIONS Approved Fo
                                                         Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
        34
35
36
37
38
39
                                                                                  .SBTTL--ASSEMBLY-TIME-DATA-DEFINITIONS.PSECT-
             000000
                                                                    ;
             000000
             6,00000
                                                                                 FCSBT$
                                                                                  INPUT-FILE-FDB-
        40
41
42
43
44
                                                                    ;
FDB:
             000000
                                                                                 FDBDF$
FDRC$A FD.RWM
             000140
000140
                                                                                              .N.BUFB., EF. 10, IOCB.
                                                                                 FDBK$A
             000140
                                                                                 FDOP$A
        45
46
47
48
49
50
                                                                    į
             000140
                                                                                 FSRSZ$ 0
                                                                                  I/O-GONTROL-BLOCK-- HRL-FILE-INPUT-
             000140
                                                                    IOCB:
        51 000140
51 000140
52 000144
53 000146
54 000147
             000140
000144
000144
                                                                                  .BLKW
.WORD
                                                                                              2.
FDB.
                                                                                                                                        : IOST-BLOCK
                                                                                                                                       ; IOST BLOCK:
;FDB ADDRESS:
;EVENT FLAG:
;READ WITH WRAP AROUND:
;CURRENT LOGICAL BLOCK:
;LAST LOGICAL BLOCK:
;ADDRESS OF BUFFER IN USE:
;INDEX TO INITIAL ASSIGN BDB:
;INDEX TO FILE S FIRST BDB:
;INDEX TO FILE S LAST BDB:
                           000000*
001
                                                                                              EF.IO.
BUFRD!BUFRAP
                                                                                  .BYTE
                                024
        55
56
57
58
             000150
                                                                                  BLKW
             000152
             000154
000156
                           000000
                                                                                  . WORD
                           000000
                                                                                              BDB1-BDB
BDB1-BDB
                                                                                  .WORD
             000160
000162
        59
661
662
664
666
667
669
771
773
775
777
                                                                                  .WORD
                                                                                 .BYTE
                                                                                              BDB1-BDB
BDB2-BDB
                               000
             000163
                                002
                                                                                 BUFFER - DEFINITION - BLOCK - ADDRESS - VECTOR
             000164
                                                                   BDB:
BDB1:
            000164
000166
                           0001701
                                                                                  .WORD
                                                                                              BUF 1
                          0041701
                                                                    BDB2:
                                                                                  .WORD
                                                                                              BUF2
                                                                                 I/O-BUFFERS
             000170
                                                                    BUE1:
                                                                                 .BLKW.
                                                                                              N.BUFW-
             004170
                                                                    BUF2:
                                                                                 MISC-LOCATIONS
            010170
010172
                                                                    BSTADR:
                                                                                 .WORD
                                                                                              9
                          000000
             010174
                                                                    ÎOSTAT:
                                                                                .BLKW-
```

roma A r

```
LDHRL: MACRO:M1110 27-MAR-80 13:20 PAGE:12: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
        79
80 010200
81 010202
010205
010210
010213
010216
                                                                                      ERROR MESSAGES
.WORD ERRIL
.ASCII /LDHRL:
                             000021
114
122
040
                                                 104
114
104
113
122
122
                                                               110
072
111
040
                                                                        ERR1T:
                                                                                                    /LDHRL: DISK ERROR/
                                   123
105
117
                                                               122
               010221
         82
83
84
85
86
                             000021
                                                                       ERRIL=.-ERRIT
              010224
010226
010231
010234
                             000030
                                                                                       .WORD
                                                                                                    ERR2L
                                                 104
114
104
                                                               110
072
115
127
124
106
114
                                  114
122
040
                                                                        ERR2T:
                                                                                       .ASCII
                                                                                                    /LDHRL: DMC-WRITE-FAILURE/
              010237
010242
010245
010250
                                   103
122
105
101
125
                                                 040
                                                 040
111
122
               010253
         87
88
89
90
91
                             000030
                                                                        ERR2L=.-ERR2T
                                                                                       .EVEN-
              010256
010260
010263
010266
010271
                             000017
                                                                                       .WORD:
                                                                        ERR3:
                                                 104
114
114
113
116
                                                               110
072
111
040
114
                                  114
122
                                                                        ERR3T:
                                                                                      .ASCII: /LDHRL: LINK:INL/:
                                  040
                             116
111
000017
              010274
         92
93
94
                                                                        ERR3L=.-ERR3T
                                                                                      .EVEN
```

```
Top.
                                                                                                                                                    1.7-191
LDHRL MOTO M1110 27-MAR-80 13:20 PAGE 13
ASSEMBLY E DATA DEFINITIONS Approved Fo
                                             Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      96 010300
                                                     _DHRL::
          010300
                                                                SAVE
                                                                          R0,R1,R2,R3,R4,R5
      98 010314
                                                                          BSTPTR(R5),R2.
B:HRLR(R2)
                                                                                                          GET BATCH STATUS TABLE
                     016502
                                000000G
                                                                MOV.
      99 010320
                     005762
                                000122
                                                                TST
                                                                                                          :IS THERE AN HRL FILE?
     100 010324
                     001002
                                                               BHE
     101 010326
102-010332
                     000167
                                000430
                                                                          LDXIT.
                                                                                                          :EXIT-IE:NOT:
                                                     10$:
      103 010332
                                                                MOV
                                                                          R2,BSTADR
                                                                                                          :SAVE-BST-ADDRESS-
:GET-HRL:S FDSC-ADDRESS
                                                               MOV-
      104
          010336
                     012701
                                000172
                                                                          #B.FMHR,R1
      105
          010342
                     060201
                                                                          R2,R1
          010344
                                aaaaaaa*
                                                                                                          :INPUT FILE FDB:
:BUILD FNB IN FDB
:OPEN FILE
      106
                     012700
                                                                MOV
                                                                           #FDB,RØ
      107
108
          010350
                                                                CALL
                                                                          BLDEFL -
          010354
                                                                OFNB$R
      109
          010366
                     103436
                                                               BCS.
                                                                          DSKERR -
                                                                                                          :BRANCH-IF OPEN-FAILUR-
      110
      111 010370
                     012701
                                0001401
                                                                                                          :LOAD-I/O-CONTROL-BLOCK:
:GET-ALLOCATION-SIZE OF-HRL-FILE:
:CALCULATE USED-BLOCKS:
                                                                          #IOCB,R1
          010374
                                                                          GTBLK
B.HBLK(R2),R3
                                                                CALL
      113
                     166203
003510
          010400
                                000120
                                                                SUB
      114
          010404
                                                                                                          #TRIVIAL HRL FILE - SUPPRESS LOAD
#LOAD START BLOCK:
#LOAD STOP BLOCK
#PRIME INPUT BUFFERS
                                                                BLE
                                                                          CUSETL
      115 010406
116 010414
117 010422
                     016261
016261
                                000122
                                          000010
                                                                          B:HRLR(R2),CBLK(R1)
                                000124
                                                                MOV
                                          000012
                                                                          B.HRLW(R2),LBLK(R1)
                                                                CALL
                                                                          BUFIO
      118
119
                                                                TOP-OF-LOOP-FOR-EACH-BLOCK-
     120
121
          010426
                                                     TOPLUP:
     122 · 010426
123 · 010432
                                                                                                          REQUEST: INPUT: BUFFER:
GET: ADDRESS: OF: BUFFER:
STUFF: BLOCK: COUNT: IN: FIRST: BLOCK:
                                                                CALL
                                                                          GETBUF
                     016104
                                000014
                                                                          CBUF(R1),R4
R3,2(R4)
                                                               MOV
          010436
      124
                     010364
                                000002
          010442
                                                               BR
                                                                          TSTRED -
                                                                                                          :CONTINUE
          010444
                                                                                                                                                     ....
                                                     REDFIL:
     128 - 010444
                                                                CALL
                                                                                                          :REQUEST · INPUT · BUFFER
          010450
                     016104
                                000014
                                                                          CRUE (R1), R4
                                                               MOV.
                                                                                                          :GET-ADDRESS-OF-BUFFER
     130 010454
131 010462
132 010464
                                                               CMPB
                     122767
                                000000G-167456
                                                     TSTRED:
                                                                          #IS.SUC, IOCB
                                                                                                          :SUCCESS®
                     001403
                                                               BEO.
                                                                          DSKOK.
                     012700
                                0102001
                                                     DSKERR:
                                                                          #ERR1,R0
                                                                                                          : FRROR
     133
134
          010470
                     000502
                                                                BR
                                                                          ERROR
          010472
                                                     DSKOK:
          010472
010542
      136
                                                                QIOW$S
                                                                          #IO.WLB.@#XMLUN,#EF.IO,,#IOSTAT,,<R4,#N.BUFB>
      137
                     122767
                                000000G · 177424
                                                                                                          ;SUCCESS?
                                                               CMPB.
                                                                          #IS.SUC,IOSTAT
                     001423
122767
      138
          010550
                                                                                                                                              ALPROPRIATE SERVICE
                                                                                                                                                  Ŋ.
                                                                          #IE.CHR, IOSTAT
                               000000G-177414
                                                                CMPB
                                                                                                          :RECOVERABLE · ERROR? ·
      140 010560
                     001427
      i 4 i
          010562
                     122767
                                000000G-177404
                                                                CMPB
                                                                          #IE.DNR, IOSTAT
      142 - 010570
                     001423
                                                                BEQ
          01057
                      122767
                                00H000G - 177374
                                                                CMPB
                                                                          #IE, TMO, IOSTAT
                     001417
122767
     144 010600
      145 010602
                                000000G-177364
                                                                CMPB
                                                                          #IE.ABO.IOSTAT
      146
          010610
010612
                     001413
012700
                                                               BEQ
                                                                          LNKRST.
#ERR2,R0
                                0102241
                                                                MOV
                                                                                                          :ERROR
     148 010616
                     000427
                                                                          ERROR
     149
     150 010620
                                                     1$:
     151 010620
152-010624
                                                               CALL
                                                                                                          ; RELEASE · BUFFER ·
                                                                          RELBUF
                    077371
                                                                          R3.REDEIL
                                                               SOB.
                                                                                                           CONTINUE
                                             Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

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LDHRL: MACRO: M1110 27+MAR-80 13:20 PAGE: 14
ASSEMBLY-TIME: DATA: DEFINITIONS Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                  HAVE · READ · ENTIRE · FILE ·
      155
156
157
           010626
                                                       CLSFIL: CLOSE$ #FDB
                                                                                                              ;CLOSE FILE
                      00045i
          010636
                                                                  BR
                                                                            LDXIT-
      158
159
                                                                  RECOVERABLE - LINK - ERROR
      160
      151 010640
                                                       LHKRST: MGV-
                                                                             #ERR3,R0
                      012700
                                0102561
                                                                                                              :ERROR · MESSAGE :...
      162-010644
163-010650
164-010656
165-010664
                                                                  CALL
                                                                  MRKT$C
WTSE$C
CLOSE$
BR
                                                                             EF.IO.60..1
                                                                                                              #WAIT-FOR-OTHER-END-TO-RECOVER _ ###...
                                                                                                                                                      · "读。" " 选、薄"
                                                                             #FDB
TOPLUP
      166 010674
167
                      000654
                                                                                                              ;CLOSE · FILE · AND · RESEND ·
      168
169
                                                                  ERROR MESSAGE EXIT - RO:ERROR MESSAGE ADDRESS
      170 010676
171 010702
                                                       ÉRROR:
                                                                  CALL.
                                                                             COOUT-
                                                                                                              :MSG - TO - CONSOLE -
                                                                  EXIT$S.
                                                       EXIT:
      171 010702
172 173
174 175 010710 012001
176 010712
177 010760 000207
                                                                  SEND-MESSAGE TO-CONSOLE-
                                                                                                              :MSG-ADDRESS-AND-LENGT的
                                                       COOUT:
                                                                             (RB) + .R1
                                                                  QIOW$S #IO.WLB, #COLUN, #EF. IO, , , < R0, R1, #40>
                                                                                                                                    :MSG TEG; CONSOLE
                                                                  RETURN:
      178
179 010762
                                                       ĹDXIT:
      180 010762
181 010764
182 011000
                      000241
                                                                  RESTOR: R0.R1.R2.R3.R4.R5
RETURN:
                      000207
```

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LDHRL · M
BUFFER · CO
                  D.M1110 27-MAR-80 13:20 PAGE:15
OL:ROUTINES: Approved Fo
                                                   Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      184
                                                                         .SBTTL - BUFFER CONTROL ROUTINES
      185
186
                                                                        187
      189 011002
                                                             GETBUF:
                                                                                                                                                                      watta, ee e
      190 011002
                                                                        SAVE
                                                                                                                         GET OFFSET TO INTENDED BUFFER

IS NEXTG BUFFER ASSIGNABLE YET
BRANCH IF IT IS
HAS ITO BEENFSTARTED ON THIS IOCB?
IF IT HAS, WE ARE IZO BOUND - WAIT
IF NOT, INPUT BUFFERS NEED TO BE PRIMED
      191 011004
192-011010
                        116102
032762
                                    000016
                                                                        MOVB
BIT-
                                                                                     NXTG(R1),R2
      192 ·
193
                                    000001
                                                000164
                                                                                     #BUFLOK,BDB(R2)
                                                                                    20$
NXTR+1(R1)
            011016
       194 011020
                         105761
                                    000021
                                                                         TSTB
      195 011024
196 011026
197 011032
                        001002
                                                                         BHE
      196 011026
197 011032
198 011032
199 011050
                                                                        CALL
                                                                                    BUFIO:
                                                             10$:
                                                                        WAIT$
                                                                                    FDBAD(R1),EVHT(R1)
                                                                                                                         :WAIT-FOR-I/O-COMPLETION
                                                             20$;
      200
            011050
                        016261
                                    000164' 000014
                                                                        MOV
                                                                                     BDB(R2),CBUF(R1)
                                                                                                                         ;LOAD·ADDRESS·OF·ASSIGNED·BÜFFER
      202
           011056
                        000423
                                                                        BR
                                                                                     BUFXIT-
                                                                                                                                                        ----
      204 011060
205 011060
                                                             RELBUF:
                                                                        SAVE
                                                                                    R2.
HXTG(R1),R2.
      206
207
           011062
011066
                         116102
                                                                                                                         :GET:OFFSET:TO:INTENDED:BUFFER
:MARK:BUFFER:UNASSIGNABLE:
:START:UP:IVO:IF:POSSIBLE:
:LAST:BUFFER:FOR:THIS:FILE?:
:RECYCLE:IF:YES:
:SELECT:NEXT:BUFFER:TO:BE:ASSIGNED:
                                                                        MOVB
                                                                                    #BUFLOK,BDB(R2)
BUFIO:
                        052762
                                    000001
                                                000164
                                                                        BIS:
      208 011074
209 011100
                                                                        CALL
                        126161
002004
062761
                                    000016
                                                000023
                                                                        CMPB
BGE
                                                                                     NXTG(R1),LBDB(R1)
     210 011106
211 011110
212 011116
213 011120
                                                                                     15$
                                    000002
                                                                                     #2,NXTG(R1)
                                                000016
                                                                         ADD
                        000403
                                                                        BR
                                                                                    BUFXIT-
                                                             15$:
      214 011120
215 011126
216 011126
217 011130
                        116161
                                    000022
                                                000016
                                                                        MOVB
                                                                                    IBDB(R1).HXTG(R1)
                                                                                                                         :SELECT-FIRST-BUFFER
                                                            BUFXIT:
                                                                        RESTOR -
                                                                                   R2
                        000207
                                                                        RETURN
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LDHRL: MACRO:M1110 27-MAR-80 13:20 PAGE:16
BUFFER:CONTROL:ROUTINES: Approved FO
                                                         Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       219
      220
221
222 011132
223 011132
224 011136
225 011140
                                                                                 ASYNCHRONOUS EXIT ROUTINE.
                                                                    ASTX:
                           010167
                                                                                               R1,R1SAV
(SP),R1
HXTR(R1),R1
#BUFLOK,BDB(R1)
                                         177034
                                                                                 MOV
                                                                                                                                        :SAVE R1
                           011601
116101
                                                                                                                                       GET 10ST (SAME AS 10CB) ADDRESS FROM STACK
                                         000020
                                                                                 MOVE
                                                                                                                                       #GET-UFFSET-TO-TZO-ACTIVE-BUFFER-
#UNLOCK-THE-BUFFER-
#POP-10CB-ADDRESS-FROM-STACK-
#POINT-TO-NEXT-LOGICAL-BLOCK-
#RESET-IZO IN-PROGRESS-FLAG-
#WAS-THIS-THE-LAST-BUFFER-FOR-FILE?-
#RECYCLE-IF-YES-
#SELECT-NEXT-BUFFER-FOR-IZO-
       226
227
             011144
011152
                           042761
012601
                                         000001
                                                      000164
                                                                                 BIC
                                                                                               (SP)+,R1
                                                                                 MOV.
       228-011154
229 011160
                           005261
105061
                                         000010
                                                                                               CBLK(R1)
                                         000021
                                                                                 CLRB
                                                                                               NXTR+1(R1)
       230 011164
                           126161
002004
                                         000020
                                                      000023
                                                                                  CMPB
                                                                                               NXTR(R1),LBDB(R1)
       231 011172
232-011174
233 011202
234 011204
                                                                                 BGE
                                                                                               193
                           062761
                                        000002
                                                      000020
                                                                                  ADD
                                                                                                #2, NXTR(R1)
                           000403
                                                                                 BR
                                                                                               20$
                                                                    10$:
       235 011204
236
                           116161
                                         000022
                                                      000020
                                                                                 MOVB -
                                                                                               IBDB(R1),NXTR(R1)
                                                                                                                                        :NEXT-I/O-BUFFER-IS-FIRST
       237
238 011212
                                                                                 START I/O ON NEXT BUFFER
                                                                    20$;
      238 011212
239 011212
240 011214
241 011220
242 011230
243 011240
244 011244
                                                                                 SAVE
                                                                                               016100 000004
                                                                                 MOV
                                                                                                                                                                                                           机铁铁
                                                                                 SAVE
                                                                                 SAVE
                                                                                 CALL
                                                                                               BUF IO
                                                                                 RESTOR
RESTOR
                                                                                               F.BKVB+2(R0),F.EFN(R0)
F.BKDS+2(R0),F.BKST(R0)
             011254
011254
011264
011266
011272
       245
246
                                                                                 RESTOR
MOV-
       247
248
249
250
                           016701
                                                                                               RISAV, RI
                                                                                 ASTX$S
       251
252
                                                                                 CALCULATE LAST PHYSICAL BLOCK OF FILE
      253
254
             011300
                                                                    GTBLK:
                                                                                                                                       #GET-FILE'S-FDB-
#GET-LAST-ALLOCATED-BLOCK-
#CONVERT-TO-LOGICAL-BLOCKS-
#BY-DIVIDING-BY-4
             011300
011304
                           016100
                                        000004
                                                                                 MOV
                                                                                               FDBAD(R1).R0
      255 011304
256 011310
257 011312
258 011314
                           016003
                                        000006
                                                                                 MOV.
                                                                                               F:HIBK+2(R0),R3
                           006203
006203
                                                                                 ASR
                                                                                 ASR
                                                                                               R3
                           000207
                                                                                 RETURN.
      259
260
                                                                                                                                                                                     marings;
       261
262
                                                                                 BUFFER-CONTROL-ROUTINE SYMBOLIC-VARIABLES-
       263
                                                                                                                                       :BUFFER LOCKED CANNOT US ASSIGNED:

:READ OPERATIONS ON THIS TOCE:

:WRITE OPERATIONS ON THIS IOCE:

:FILE WRAP AROUND IN EFFECT:

:LAST LOGICAL I/O BLOCK ENCOUNTERED:

:1008 HAS BEEN INITIALIZED
                                                                    BUFLOK
                                                                                               BITØ
       264
                           000004
                                                                    BUFRD
       265
266
267
                                                                    BUFWR
                                                                                               BITZ
                           000020
                                                                    BUERAR
                           000040
                                                                    BUFEOF
                                                                                               BIT5
       268
                           000200
                                                                     BUFOPN.
                                                                                               BIT7
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I DHRI
                   O-M1110 27-MAR-80 13:20 PAGE-17
OL-ROUTINES: Approved Fo
BUFFER CO
                                                     Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3**
      270
                                                                            PERFORM- I/O · ON · NEXT · AVAILABLE · BUFFER
      270
271
272
273
274 011316
275 011316
276 011326
                                                                            R1 -> BUFFER DEFINITION BLOCK
                                                                ₿UFIO:
                                                                             SAVE
                                                                                          R0,R2,R3,R4
      276
277
                         132761
                                      000200
                                                  000007
                                                                            BITB
                                                                                          *BUFOPH, ATTR(R1)
                                                                                                                                :HAS - IOCB - BEEN - INITIAL IZED - YET?
            011334
                                                                            BON
                                                                                                                                :IF SO, SET UP I/O OPERATION:
:HAS LOGICAL START OF FILE BEEN SPECIFIED?
:BRANCH IF IT HAS
      278 011336
279 011342
                         005761
                                      000010
                                                                             TST
                                                                                         CBLK(R1)
                         003003
            011344
011352
      288
                         012761
                                      000001
                                                  000010
                                                                            MOV
                                                                                         #1,CBLK(R1)
                                                                                                                                SET START AT BEGINNING OF FILE
      281
                                                                185:
      282-011352
283-011356
                         005761
                                      000012
                                                                             TST
                                                                                         LBLK(R1)
                                                                                                                                :HAS-LOGICAL-END-BEEN-SPECIFIED?
                                                                                                                               #HAS LUGILAR END BEEN STOOT TO

#BRANCH IF IT HAS

#HAS WRAP AROUND BEEN SPECIFIED?

#BRANCH: IF IT HAS

#CALCULATE LOGICAL BLOCK SIZE OF FILE

#SET UP LOGICAL BLOCK TO STOP I/O
                         003010
      284 011360
                          132761
                                      000020
                                                  000007
                                                                                         #BUFRAP,ATTR(R1)
                                                                            BITB
      285 011366
286 011370
                                                                            BON.
                                                                                         20$
                                                                            CALL
MOV
                                                                                         GTBLK
      287
288
            011374
011400
                         010361
                                      000012
                                                                                         R3.LBLK(R1)
                                                               20$:
            011400
011406
      289
                          132761
                                      000004
                                                                            BITB
                                                                                         #BUFRD,ATTR(R1)
                                                                                                                               :IS-THIS-IOCB-FOR READ OPERATIONS?
:BRANCH-IF NOT:
:GET-OFFSET-TO-FIRST BUFFER-
      290
            011410
011414
      291
                          116102
                                      000022
                                                                                         IBDB(R1),R2
                                                                            MOVB
                                                                25$:
                                                                                                                               #MARK BUFFER UNASSIGNABLE FOR TO NEXT BUFFER FLAST BUFFER BEEN MARKED? FOR TO MARK IT
            011414
011420
                         005262
062702
      293
                                      0001641
                                                                             INC
                                                                                         BDB(R2)
      294
                                      000002
                                                                            ADD
                                                                                         #2,R2.
R2,LBDB(R1)
      295
            011424
011430
                         120261
003771
                                      000023
                                                                             CMPB
                                                                            BLE
      297
298
299
            011432
                                                                30$:
            011432
                                                                                                                               DEFINE AST EXIT: SET TOCK INTITALIZED FLAG
                                                                            FDBK$R ·
                                                                                         FDBAD(R1).....#ASTX
      300
            011444
                         152761
                                      000200
                                                  000007
                                                                            BISB:
                                                                                         #BUFOPN, ATTR(R1)
    301
302
303
304 011452
305 011452
911460
462
                                                                                                                                            SET-UP-I/O-OPERATION-
                                                               BUFQIO:
                         132761
                                     000040
                                                  000007
                                                                            BITB
                                                                                         #BUFEOF,ATTR(R1)
                                                                                                                                :HAS FILE'S LOGICAL EOF ALREADY BEEN REACHED?
                                                                                                                               #HAS FILE'S LOGICAL EOF ALREADY BEEN REACH

#FSO, EXIT.
#IS 170 ALREADY IN PROGRESS ON THIS TOCK?

#EXIT. IF SO.
#GET OFFSET TO NEXT BUFFER FOR I/O?

#BRANCH IF NOT.
#GET BUFFER ADDRESS

#CLEAR LOCK FLAG.
#DEFINE BUFFER IN THE FDB.
#DEFINE BUFFER I AG AND LOCK.
                                                                            BON.
                                                                                         BUFIOX.
      307
308
            011462
011466
                          105761
                                      000021
                                                                             TSTB
                                                                                         HXTR+1(R4)
                                                                            BHE
                                                                                         BUFIOX:
HXTR(R1),R2
                         001141
            011470
011474
      309
                         016102
                                      000020
      310
                                      000001
                                                  0001641
                         032762
                                                                            BIT
                                                                                          #BUFLOK,BDB(R2)
     311 011502
312-011504
313 011510
314 011514
                                                                            BOFF
                                                                                         BUFIOX:
                         016203
                                      000164
                                                                            MOV
                                                                                         BDB(R2).83
                         042703
                                      000001
                                                                                          #BUFLOK,R3
                                                                            EDBK $R
                                                                                         FDBAD(R1).R3
      315
            011524
                                                                            FDBK$R
                                                                                         AZZZEVNT(R1),R1
                                                                                                                               ; DEFINE EVENT FLAG AND TOST BLOCK
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a 5 LDHRL: MACRO:M1110 27-MAR-80 13:20 PAGE:18
BUFFER:CONTROL:ROUTINES: Approved For Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3 317 DO THE APPROPRIATE I/O OPERATION 318 319 320 011536 011536 10\$: :GET-LAST-LOGICAL-BLOCK-:SET-LOGICAL-BLOCK-INDICATOR LBLK(R1),R3 016103 000012 MOV. 321 322 011542 011546 105261 000017 INCB HXTG+1(R1) 20\$: 323 011546 324 011552 026103 000010 CMP CBLK(R1),R3 ;COMPARE:CURRENT:WITH:LAST: ;DO:I/O:= NOT:LAST:BLOCK: ;DO:I/O:= TEST:FOR:LAST:BLOCK: 002427 BLT 324 011552 325 011554 326 327 011556 320 011564 001420 BEQ 40\$:LAST HIGH - FILE WRAP AROUND? :HAVE ALREADY REACHED END OF FILE: :LOGICAL BLOCK HADICATOR SETS :BRANCH IF YES :WRAP AROUND TO START OF FILE 132761 000020 000007 BITB #BUFRAP,ATTR(R1) BOFF BUFIOX-329 011566 330 011572 105761 000017 TSTB. HXTG+1(R1) 991994 30\$ 011574 012761 000001 000010 MOV #1.CBLK(R1) 332-011602 333 011604 000755 RETEST FOR LOGICAL EOF 30\$: 334 011604 335 011610 336 011614 CALL CALCULATE LAST PHYSICAL BLOCK IN FILE-RESET LOCICAL BLOCK INDICATOR RETEST FOR PHYSICAL END OF FILE GTBLK 105061 000017 CLRB NXTG+1(R1) 336 011614 337 011616 000754 40\$: 338 011616 105761 :WHICH END OF FILE IS BEING TESTED? :BRANCH IF PHYSICAL EOF: :SET-LOGICAL EOF REACHED INDICATOR 000017 TSTB HXTG+1(R1) 339 011622 340 011624 BEQ. 685 152761 000040 000007 BISB #BUFEOF,ATTR(R1) 341 011632-342-011632-50\$: 105061 000017 CLRB. NXTG+1(R1) ; RESET LOGICAL BLOCK INDICATOR 343 CALCULATE · CURRENT · VIRTUAL · BLOCK · FROM · CBLK · FIELD · 345 346 011636 60\$; 011636 011642 016103 005303 347 000010 CBLK(R1),R3 ;GET CURRENT LOGICAL BLOCK 348 R3 R3 DEC 349 011644 006303 ÊĽ 350 011646 006303 ASI. R3 351 352 011650 005203 INC ;VB·=·(CBLK-1)*4+1 #VB-=-(CBLK-1)*4+1
#GET-FDB-ADDRESS#INITIALIZE-VIRTUAL-BLOCK-ADDRESS-IN-FDB
#SET-I/O-IN-PROGRESS
#READ-SPECIFIED#BRANCH-IF NOT#PERFORM-THE-READ#CUECU-GURCECE. 011652 016100 000004 MOV FDBAD(R1),R0 353 011656 R3,F.BKVB+2(R0) 010360 000066 MOV 354 011662 105261 000021 INCR NXTR+1(R1) 355 011666 132761 000004 000007 #BUFRD,ATTR(R1) 011666 011674 011676 011702 011704 BOFF 703 357 READ\$ 358 359 000406 BR :CHECK SUCCESS 70\$: 011704 360 000010 000007 BITB #BUFWR,ATTR(R1) :WAS-WRITE SPECIFIED? :BRANCH-IF NOT-361 BOFF BUFIOX-362 011714 363 011720 WRITES :PERFORM THE WRITE 80\$: 364 011720 103024 BCC BUFIOX. ;EXIT-IF-NO-ERROR

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LDHRL M
BUFFER CO
                     0-M1110 27-MAR-80 13:20 PAGE: 19
OL-ROUTINES: Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
       368 011722-
369 011722-
370 011732-
371 011732-
372 011748
373 011744
374 011746
375 011745
376 011754
377 011764
378 011764
379 380
381
382 011772-
383 011772-
384 012002-
                                                                                         ERROR-EXIT-ON-FCS-DIRECTIVE-
                                                                          ÉRRX:
                                                                                                                                                   :WAS THIS READ PAST LAST BLOCK
:IF NOT, A TRUE ERROR
:SET END OF FILE FLAG
:RESET I/O IN PROGRESS FLAG
:EXIT ROUTINE
                             126027
001006
                                                                                        CMPB
BNE
BISB
                                            000052
                                                           000000G
                                                                                                       F.ERR(R0).#IE.EOF-
10$
                                            000040
                              152761
105061
                                                                                                        #BUFEOF,ATTR(R1)
                                                           000007
                                                                                         CLRB
                                                                                                        MXTR+1(R1)
BUFIOX
                                            000021
                              000412
                                                                                         BR
                                                                          10$:
                              016067
012700
                                                                                                        F.ERR(R0),IOSTAT
                                            000052
010200'
                                                                                         MOV.
                                                            176220
                                                                                         CALL:
EXITSS
                                                                                                        COOUT
                                                                                         RETURN POINT FOR BUFIO SUBROUTINE
                                                                          BUFIOX:
                                                                                         RESTOR R0.R2.R3.R4
                              000207
000001
                                                                                         RETURN
END
```

- Jan Libraria

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LINHRI
             MACRO-M1110 27-MAR-80 13:20 PAGE-19-1
                                                          Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                                                                                                                    F.MBCT=-000054
F.MBC1=-000055
F.MBFG=-000056
F.NRBD=-000024
             011132R
                                         B.FEMB
                                                       000142
                                                                           010 ERROR-
                                                                                                010676R
                                                                                                                           FF:NV-=-000003
ATTR
             ававаг
                                  014 B.FEMC
B.FFSA
                                                       000152
000202
                                                                           010 ERRX:
010 ERR1
                                                                                                011722R
010200R
                                                                                                                            FF.POE=
                                                                                                                                         000002
              000164R
                                                                                                                            FF.RWD= 000001
BDB1
                                                                           010 ERR1L-
010 ERR1T-
                                                                                               - 000021
- 010202R
             000164R
                                         B. FESB
                                                       888212
                                                                                                                            FF.RWF= 000006
                                                                                                                                                                   F.NREC= 000024
F.NREC= 000030
F.OVBS= 000030
F.RACC= 000016
F.RACT= 000001
F.ROWH 000001
BDB2
BITVAL=
              000166R
                                                       000222
                                                                                                                            FF.SPC= · 000004
                                                                                                010224R
             000000
                                         B.FMHR
                                                       000172
                                                                           010 ERR2
                                                                                                                            FH.DBR
                                                                                                                                                              011
                                                                           010 ERR2L
BIT0
             000001
                                         B.FQLS
                                                       000162
                                                                                                000030
                                                                                                                                                             011
011
                                                                                                                            EN. DBS
                                                                                                                                         888822
                                                                           010 ERR2T
010 ERR3
                                                                                                010226R
010256R
                                                                                                                            FH.DHR
BIT1
           - 0000002
                                         B-ESAZ
                                                       000100
                                                                                                                                         000046
                                         B.FSBZ
                                                       000102
                                                                                                                                                             011 F.RCNM-000034
011 F.RCNM-000034
011 F.RCTL-000017
011 F.RSIZ-000000
011 F.SEQN-000100
011 F.SEQN-000100
                                                                                                                            FN.EMA
                                                                                                                                         000012
BIT11
          010 ERR3L
010 ERR3T
                                                                                               000017
010260R
                                         B.FSCZ
                                                       000104
                                                                                                                            FH.EMB
                                                                                                                                         000014
BIT12
          --010000
                                         B.HBLK
                                                       000120
                                                                                                                            EN. EMC.
                                                                                                                                         000016
          = 020000
BIT13
                                                                           010 EVHT-
010 EXIT-
                                                                                                000006
010702R
                                                                                                                           FN.FSA
FN.FSB
                                         B. HDDC
                                                       000114
                                                                                                                     014
BIT14
          = · 040000
= · 100000
                                         B.HRLP
                                                                                                                                         999992
BIT15
                                                                           010 FA.APD= 000100
010 FA.CRE= 000010
                                         B.HRLR
                                                       000122
                                                                                                                            FN.FSC
                                                                                                                                                             011 F.SPDV= 000072
011 F.SPDN= 000074
011 F.STBK= 000036
011 F.UNIF= 000136
011 F.URBD= 000060
011-F.VBN = 000064
011 F.VBSZ= 000060
          = · 000004
= · 000010
                                          B.HRLW
                                                       000124
                                                                                                                            FN.LGQ
                                                                                                                                         000034
BIT3
                                         B. HMBR
                                                       000052
                                                                           010 FA.DLK= 001000
010 FA.ENB= 100000
                                                                                                                            FH.LGU
          = · 000020
= · 000040
                                         B.NQRY
B.QLSZ
BIT4
                                                                                                                            EN. MEO
                                                                                                                                         000024
                                                                           010 FA.EXC=-002000
010 FA.EXT=-000004
BIT5
                                                       000106
                                                                                                                            FM:MHR
                                                                                                                                         000010
          = 000100
= 000200
BIT6
                                          B.QMAP
                                                                                                                            FN: HMB
                                                                                                                                         000044
                                                                           010 FA.NSP= 000100
010 FA.POS= 010000
010 FA.RD = 000001
                                         B: QSPL
                                                                                                                           FN.QLS
FN.QRY
                                                       000316
                                                                                                                                         000006
                                         B.QTTM
B.QUQP
BITS

    988488

                                                       000076
                                                                                                                                         000020
                                                                                                                                                                                  011002R
           = 001000
                                                       000056
                                                                                                                           FN.SF0
FN.SF1
                                                                                                                                         000030
000032
                                                                                                                                                             010 FA.RWD = 004000
010 FA.SEQ = 040000
010 FA.SEQ = 040000
010 FA.SHR = 000040
010 FA.TMP = 000020
010 FA.WCK = 020000
010 FA.WCK = 020000
                                                       000010
000772
BLDEFL = · ******* G
                                         B. SEDB
                                                                                                                                                                                                       014
BSTADR · 010170R · BSTPTR = · ****** G
                                          B.SIZE
                                                                                                                            FN:SHD:
                                                                                                                                         000042
                                                                                                                           FO.APD = 000106
FO.MFY = 000002
FO.RD = 000001
FO.UPD = 000006
                                                       000012
                                         B. SNDP
BS.CLS= 000002
BS.DBU= 000004
                                         B.SSQ.
B.SSQF
                                                       000004
                                                                                                                                                                     IE.DNR=-жжжжжж
                                                       000050
                                                                                                                                                                      IE.EOF= ****** GX
BS: INA = . 000000
                                         B.STAT
                                                       000044
                                                                                                                                                                     IE.TMO= ******** GX
IOCB 000140R
BS.OPH= 000001
                                         B.STTE
                                                                                                                           FO.WRT= 000016
F.ACTL= 000076
                                                       000053
                                                                           MIM EDB.
                                                                                                000000R
DS.SRC=-000003
                                         B.UDOC
                                                       000110
                                                                           010 FDBAD.
                                                                                                000004
                                                                                                                     014
                                                                                                                                                                     IOST 000000.
IOSTAT: 010174R
                                                                                                                                                                                                       014
BUFEOF = . 000040
                                                                           014 FD.BLK= 000010
014 FD.CCL= 000002
                                          CBLK -
                                                       000010
                                                                                                                            F.ALOC = 000040
BUFIO: 011316R:
BUFIOX: 011772R:
                                         CBUF
                                                                                                                                                                     10: WLB= жжжжжж GX
IS:SUC= жжжжжж GX
                                                       000014
                                                                                                                            F.BBFS=-000062
F.BDB-=-000070
                                                                                  FD.COM= 020000
FD.CR = 000002
                                         CF.B0 = 000070
                                         CF.B2 = 000067
CF.B4 = 000066
BUFLOK= 000001
                                                                                                                              :BGBC=:000057
                                                                                                                                                                    LBDB
                                                                                                                                                                                  000023
000012
                                                                                                                                                                                                       014
BUFOPN= 000200
                                                                                  FD.DIR= 000010
FD.FID 000000
                                                                                                                              BKDN= 000026
                                                                                                                                                                                                       014
                                         CF.B6 = 000065
CF.DR0= 000064
CF.DR1= 000063
BUFQIO.
              011452R
                                                                                                                    003 F.BKDS= 000020
003 F.BKEF= 000050
                                                                                                                                                                    LDHRL
LDXIT
                                                                                                                                                                                  010300RG
                                                                                  FD.FNB 000006
FD.FTN= 000001
FD.FVR 000004
FD.F11= 04000
BUFRAP = . 000020
                                                                                                                                                                    010762R
BUFRD - - 000004
BUFWR - - 000010
                                                                                                                            F.BKP1= 0000051
                                                                                                                                                                                  010640R
                                          CH,AND= 000001
                                                                                                                     003
                                                                                                                              BKST= 000024
                                                                                                                                                                    М = 000062
М.КТАЕ= 000010 — — — — — — М.КТЕЕ = 000002
BUFXIT-
BUF1
             011126R
000170R
                                          CLUFIL
                                                       010626R
                                                                                                                           F.BKVB= 000064
F.CHR = 000075
                                         COLUN - - 000006
                                                                                  FD.INS= 000010
FD.ISP= 002000
BUF2
              004170R
                                          COOUT
                                                       010710R
                                                                                                                            F.CNTG=-000034
                                                                                                                                                                    M.KTMG= 000004
BYTEA
                                                                           FD.LEH- 000010
005 FD.MHT= 100000
                                                                                                                             .DFNB= 000046
.DSPT= 000044

    - - ЙЙЙЙЙЙЙ

                                          DBSLEN#
                                                      000116
                                                                                                                     003
                                                                                                                                                                     M.KTUN= 000006
          -- 000001
BYTE1
                                                                           005 FD.MNT= 100000
005 FD.OSP= 004000
005 FD.PLC= 000004
005 FD.PRN= 000004
005 FD.PS= 010000
013 FD.RAN= 000001
013 FD.RAN= 000001
013 FD.REC= 000001
013 FD.REC= 000001
013 FD.REC= 000001
013 FD.REC= 000001

    - 000002

                                                                                                                                                                   NB.DEX= 200002
NB.DEX= 200200
NB.DATR= 2000100
NB.NAM= 200004
BYTE2
             000002
                                         DH.BF1
                                                       0000004
                                                                                                                               DVNM= 000134
          = · 000003
= · 000004
BYTE3
                                         DH.CTL
                                                       000000
                                                                                                                           F.EFBK=<u>000010</u>
F.EFN-=000050
F.EOBB=000032
BYTE4
                                         DH: DMC
                                                       000010
          = · 000005
= · 000006
                                                                                                                                                                    NB:SD1= 000004
NB:SD2= 001000
NB:SNM= 000040
NB:STP= 000020
NB:STP= 000010
BYTE5
                                          DH.FLG
                                                       000006
          = · 000005
= · 000007
                                         DH: DCK
                                                                                                                            F.ERR -- 000052
F.FACC -- 000043
                                                       000000
                                         DH: HTP
DH: HXT
                                                       000004
000006
BYTE7
          = · 000010
= · 000011
BYTE8
                                                                                                                            E:FEBY=:000014
                                         DN.ROT
                                                       300002
                                                                                                                            F.FNAM= 000110
BYTVAL = . 000012
                                          DH.SJZ
                                                       000010
                                                                                                                                                          NB.TYP= 000010
NB.TYP= 000002
NB.YER= 000016
XTG:W.000016
FXTR: 0000004
N.BFAC= 0000004
                                                                                                                            E.ENB. = 000102
B.BSTA
                                                                                  FD.SQD=-000040
FD.TTY=-000004
FD.WBH=-000002
FF.CHR=-000005
                                                                                                                            F:FVER 000116
F:FVER 000004
F:HIBK=000004
F:LUN-=000042
                                  010 DPLUN -
             000054
                                                       000003
                                                                                                                                                                                              1014-
014
B.CNTX
             000046
                                  010 DSKERR
010 DSKOK
                                                       010464R
              000060
                                                                                                                                                                                                       014
                                                       010472R
B.FEMA
             000132
                                  010 EF.IO -- 000001
                                                          Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
0.M1110 27-MAR-80 13:20 PAGE:19-2
SYMBOL: TO
                                                       Approved For Release 2005/07/2
                                                                                                              A-RDP85-00514R000100030001-3
M:BHGH= 000006
                                       R. VAR
                                                    000002
                                                                               SR.1IP
                                                                                            ₽20016
                                                                                                                002 · S : FNAM= · 000006
                                                                                                                                                              XBATCH= 000013
XDBLOA= 000004
                                                                                                               004 S.FNB = 000036
004 S.FNBW= 000017
004 S.FNTY= 000004
                                                                              SS.FID
SS.FNB
N.BTCH= : 000004
                                       RISAV-
                                                     010172R
                                                                                            000002
M.BUFB= 004000
                                       SR.ARE
                                                    000114
                                                                                                                                                              XDBPRO= 0000012
XDMCIN= 000006
                                                                                            000010
H.BUFW= 002000
H.DID = 000024
H.DVHM= 000032
                                       SR.ARS
SR.DAY
                                                     000106
                                                                              SS.FVR
                                                     000010
                                                                        002
                                                                                                               004 S.FTYP= 000002
004 S.HRL = 000240
                                                                                                                                                              XFOSMR= 000007
XGTSRE= 000014
                                                                                            000012
                                                                       002-SS.LEN
002-SS.STT
002-ST.ASZ
002-ST.BSC
002-ST.BTC
002-ST.CSZ
002-ST.HRL
002-ST.LEN
002-ST.LEN
                                       SR.DLT
SR.ECB
                                                     000014
                                                                                            000000
N.FID. = . 000000
N.FNAM= . 000006
                                                                                                               006 S.NFEN=
006 TOPLUP
006 TSTRED
                                                     000047
                                                                                            000020
                                                                                                                                   000020
                                                                                                                                                              XHITSK = . 000011
XHLMER = . 000002
                                       SR.ECH
SR.ECL
                                                     пападь
                                                                                            000024
                                                                                                                                   010426R
N.FOS-=-000764
N.FTYP=-000014
                                                     000050
                                                                                                                                                             XHOTSK = · 000010
XMLUN · = · ******
                                                                                            ававая
                                                                                                                                   010454P
                                       SR.FIB
                                                     000012
                                                                                            000030
                                                                                                                006
                                                                                                                      WN. NTP
                                                                                                                                   000004
                                                                                                                                                       012
012
012
N.FVER= 000016
N.NEXT= 000022
                                       SR. GRE
                                                     000100
                                                                                                                                                             XMSCHE = 000000
XQTS = 000003
XQT0 = 000001
                                                                                            000010
                                                                                                               006
006
                                                                                                                     JJN: NXT
                                                                                                                                   РИРИРИ
                                       SR.GRS
SR.LEN
                                                     000072
                                                                                            000044
                                                                                                                      WN.ROT
                                                                                                                                    000002
N.PKSZ= 000020
N.PKTS= 000043
                                                     000122
                                                                                                                                                             XQT0 = 000001

XSULOA= 000005

$$$ = 000012R

$$$ARG= 000002
                                                                                            000002
                                                                                                               006 WN.SIZ
006 WN.SRC
                                                                                                                                                       012
                                                                                                                                   000010
                                                                        002-ST.QRY-
002-ST.QSZ-
002-ST.SCH-
002-ST.UHL-
002-ST.XLT-
002-SU.DBU=-
                                       SR.LIN
SR.LIP
                                                     яяяяьь
                                                                                            000034
                                                                                                                                   000000
N.QURY= 000031
N.STAT= 000020
                                                     000062
                                                                                            000040
                                                                                                                006
                                                                                                                     JJN : TYP
                                                                                                                                   000001
                                                                                                                                                       012
                                       SR MON
                                                     раварь
                                                                                            000004
                                                                                                                      WORD0
                                                                                                                                   000000
N.SUNT= 000002
H.UNIT= 000034
                                        SR.NDC
                                                     000042
                                                                                                                                                              $$$0ST= 000004
.CLOSE= ******
                                                                                            000014
                                                                                                                006
                                                                                                                     WORD 1
                                                                                                                                   000002
                                       SR: NDS
                                                     <u>аааазе</u>
                                                                                           000004
                                                                                                                      WORD2
                                                                                                                                   000004
             000061
                                       SRININ
                                                                                                                                                              .CLUSE - ********
.FSRCB - ********
.OPFNB - ********
.READ - - ********
.WAIT - - *********
                                                     000030
                                                                                           . 000006
                                                                                                                      MORD3
                                                                                                                                   annana
OF.ROI=
                                       SR.HIP
SR.SDB
                                                                        002
002
                                                                              ·SU.IDL=-000000
·SU.LOD=-000001
             000144
                                                     000022
                                                                                                                      WORD4
                                                                                                                                   000010
Q.FDSC
             000004
                                                     000032
                                                                                                                      WORDS =
                                                                                                                                   .000012
                                                                        002 SU.SRC = 000001
002 SU.SRC = 000002
002 SU.SRR = 000005
002 SU.SRF = 000003
002 S.FATT = 000016
002 S.FATT = 000140
Q.NQBK
             000000
                                 007 SR:SRC
                                                     000002
                                                                                                                      WORDS
WORDS
                                                                                                                                   000014
Q.HUHL
             000002
                                 007
                                       SR.SUN
                                                     000000
                                                                                                                                                              000016
0.S1ZE
             000014
                                 007
                                       SRATUS
                                                    000056
000052
                                                                                                                      WORD8
                                                                                                                                   000020
                                       SR.WSL
                                                                                                                      HORDS =
                                                                                                                                   . 0000022
RELBUE
             0110608
                                       SR.YR
                                                    000004
000024
                                                                                                                      WRDVAL =
                                                                                                                                   000024
R.FIX
             000001
                                       SR:1IN
                                                                                                                      W.TSEF = . 000002
                                                                                                                                                              ...TPC=-000020
             000003
. ABS.
             000000
                               กกก
                               001
002
003
             012004
SROOFF
             000122
FDSCOF
SUSOFF
             000010
             000012
                               004
DHROFF
STTOFF
             000012
                               005
                               006
007
             000044
QSPLOF
BSTOFF
             000014
000772
                               010
                               011
012
013
014
ENGEES
             999944
WHODOF
             000010
DNODOE
             000010
IOCBOF
$$FSR1
             000024
             равава
                               0.15
$DPB$$
             000016
                               016
ERRORS DETECTED:
                             0
VIRTUAL MEMORY USED:
                                    7245 WORDS: (-29 FAGES)
DYNAMIC MEMORY: 8084 WORDS (31 PAGES)
ELAPSED TIME: 00:00:55
```

LDHRL, LDHRL/-SP=[20,1]P,M,LDHRL

GX

GGG

HRLMRG. M 0.M1110 27-MAR-80 13:29

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11- 21 HRLMRG.MAIN.ROUTINE.
12- 71 HLMERG.- MERGE UHL.COMMAND.
16- 210 HLTERM.- TERMINATE HRL.FROCESSING.FOR.THIS.BATCH.
17- 226 HLABRT.- ABDRT HRL.PROCESSING.FOR.BATCH.
18- 246 HLABRT.- ABDRT HRL.PROCESSING.FOR.BATCH.
20- 322 LOCATE.BATCH.TABLE.AND.GUERY.SPOOL FILE.SUBROUTINE.
21- 357 INITIALIZE.HRL MERGE.FILE.SUBROUTINE.
22- 456 START.UP.UHL.FILE.SUBROUTINE.
24- 495 GET.NEXT.HRL.ENTRY.ROUTINE.(ULINIT)
25- 535 GET.NEXT.HRL.ENTRY.ROUTINE.(HGET)
26- 577 OUTPUT.AH.HRL.ENTRY.SUBROUTINE.(HPUT)
27- 623 BUFFER.CON'ROL ROUTINES.
32- 824 ERROR.HANDLING ROUTINE.
33- 876 DATA STORAGE.AND.SYMBOLIC.VARIABLES.
34- 934 FILE STRUCTURES.

18 19

HRLMRG- MACRO-M1110 27-MAR-00 13:29 PAGE-10

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.FITLE . HRLMRG-

GENERATE HIT RESOLUTION LIST (HRL) FILE PROGRAM

THIS PROGRAM MERGES A USER HIT LIST (UHL) INTO AN HRL FILE, ESSENTIALLY AN ORDERING OF DOCUMENT IDS WITH THEIR ASSOCIATED OUERY IDS. THE PROGRAM LOGIC IS JUST A VARIATION OF THE CLASSIC OLD MASTER (HRL) & TRANSACTION (UHL) -> NEW MASTER (HRL).

The Attention of the Control of the

THE PROGRAM USES A GENERALIZED MULTIPLE BUFFERING SCHEME FOR THE INPUT FILES TO SIMULATE THE (IDEALIZED) GET FUNCTION, WHICH DOES NOT HAVE A MULTIPLE BUFFERING CAPABILITY IN RSX-11M.

.RADIX: 10 .NLIST: BEX:

.MCALL EXIT\$\$,RCVX\$C,ASTX\$S .MCALL FINIT\$,READ\$;WRITE\$,WAIT\$,OFNB\$R,OFNB\$W,OFNB\$M,CLOSE\$.MCALL FDBDF\$,FDRC\$A,FDBK\$A,FDOP\$A,FDBK\$R,FSRSZ\$,FDAT\$R

```
27-MAR-80 13:29 PAGE 11
                                          Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
21
22:000000
                                                               .SBTTL- HRLMRG-MAIN-ROUTINE
                                                               PSECT
23
24
25
26
27
                                                   HRLMRG:
    000000
                                                              GET - COMMAND - PACKET - FROM - MSCHED -
28.000004
29.000004
30.000012
                                                   GETCMD:
                                                              RCVX$C+
BCC+
                                                                          .RCVB
10$
                                                                                                             :GET.COMMAND.DATA
                103003
                                                                                                            :BRANCH IF RECEIVED OK :
:MSGOUT - DIRECTIVE ERROR
31
32
33
     000014
                                                                          DIREPR
                                                              CALL
    000020
                000456
                                                                                                            :EXIT-PROGRAM
34
35
                                                              INTERPRET COMMAND - LOCATE BATCH AND QUERY
                                                   .
10$:
    000022
36
37
    000022
000026
                                                              CALL
                                                                          LOCGRY
                                                                                                            ;GET-CORRECT-BST-AND QID
;BRANCH-IF FAILURE-
                103453
                                                              BCS
                                                                          PGMXIT
38
39
    000030
                 116702
                                                              MOVB
                           004337
                                                                          CMDX<sub>2</sub>R2
                                                                                                             ;GET.COMMAND.INDE>
    000034
                                                              BMI
CMP
                100410
                                                                          25$
                                                                                                            #BRANCH INVALID INDEX
#INDEX IN RANGE?
#BRANCH IF OUT OF RANGE
#SUBROUTINE TABLE OFFSET
40
41
    000036
                020227
                           000004
                                                                          R2,#<CMDLST-CMDTAB>/2
    000042
                002005
                                                              BGE
42
43
44
45
    000044
                006302
                                                              ASL
                                                              EXECUTE - COMMAND -
46
47
48
49
50
    000046
000052
000054
                                                              CALL
                                                                          @CMDTAB(R2)
                 103020
                                                              BCC -
BR
                                                                          CMDLST
PGMXIT
                                                                                                             :BRANCH-TO ACKNOWLEDGE-SCHEDULER
                000440
                                                                                                            :BRANCH IF COMMAND FAILURE
    000056
                                                   25$:
                                                                                                            :STORE COMMAND CODE RECEIVED FOR MSCOUT
               010267
    000056
                           004316
                                                              MOV
                                                                          R2,PAR1
51
52
53
54
55
56
57
59
    000062
                                                              MOUT$S -
                                                                         #MSG3. #MSGPAR PGMXIT
               000425
    000102
                                                              COMMAND PROCESSING ROUTINE LIST.
    000104
000104
                                                   ĆMDTAB∶
                0001641
                                                               .WORD
                                                                          HLMERG -
                                                                                                            :MERGE-UHL ROUTINE
    000106
000110
               0006261
0007241
                                                                                                            TERMINATE HRL:
PROBE: UHL SIZE:
ABORT: HRL PROCESSING
                                                              . WORD
                                                                          HLTERM-
                                                                         HLPROB .
                                                               . MORD
    000112
000114
                000642
                                                              .WORD
                                                   OMDLST:
                                                                                                            :PROGRAM-SOURCE -- HRLMRG -- :GET-SSQ - PACKET -- RETURNED - IN - MOVE - IN - PROG - ID - AND - ACK - CODE
61
    000114
                112767
                           000002
                                       004250
                                                              MOVB
                                                                         *XHLMERG,PGMID
GETFRE.
62
63
    000122
                                                              CALL
               016762
                           004240
                                       0000002
                                                              MOV.
                                                                         PGMID,2(R2)
BCHNO,4(R2)
64
65
66
    000134
000142
               016762
016762
                           004234
004230
                                                                                                            :MOVE IN BATCH ID
                                       000006
                                                              MOV
                                                                          QRYID,6(R2)
    000150
                                                              CALL
                                                                                                            CHAIN SSQ TO MSCHED
CHECK FOR NEW COMMAND PACKET
67
68
    000154
               000713
                                                              BR
                                                                          GETCMD
    000156
                                                   ∍GMXIT:
    000156
                                                              EXIT$S
```

HRI MRG.

```
HRLMRG- MACRO-M1110 27-MAR-80 13:29 PAGE-12
HLMERG-- MERGE-UHL-COMMAND- Approved Fo
                                             Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                 .SBTTL - HLMERG - MERGE UHL COMMAND
       72
73
74
75
          000164
                                                     HLMERG:
          000164
                     005767
                                004236
                                                                           NBUHL
                                                                                                           001522
                                                                BED
                                                                           HLMERX
       76
77
78
          000172
000176
                                                                CALL
                                                                           HLIHIT
                     103517
                                                                                                           OPEN FAILURE ON HRL FILE.
          000200
                                                                                                           START-UP-INPUT-ON-UHL SUBFILE
          000200
                                                                CALL
                                                                           ULIHIT
       80
          000204
                      103514
                                                                BCS -
                                                                           HLMERX.
       81
      82
83
84
85
                                                                OPEN HRL MERGE FILE - PRIME ITS INPUT BUFFERS
          000206
000206
                                                     30$:
                                                                CALL:
                                                                           HGET
                                                                                                           :GET-NEXT-HRL-ENTRY-FROM-OLD-MERGE-FILE
      86
87
88
89
90
          000212
000212
                                                      40$:
                                                                CALL
                                                                           UGET
                                                                                                           ; GET - NEXT - UHL - ENTRY -
                                                                COMPARE - UHL - AGAINST - INPUT - HRL
          000216
                                                     50$:
       91
92
93
94
           000216
                     012703
                                004466
                                                                           #UDOC,R3
HDOC,R4
#3,R5
                                                                MOV
                                                                                                           #SET-POINTER-TO-UHL-ENTRY-
#SET-POINTER-TO-HRL-ENTRY-
#LOAD-DOCUMENT-ID-WORD-LENGTH-
                     016704
012705
                                                                MOV
          000222
                                004250
          000226
                                000003
                                                     55$:
      95
96
          000232
                                                                           (R3)+,(R4)+
                                                                CMP -
                                                                                                           COMPARE A DOCUMENT ID WORD :UHL ENTRY IS LOW:
          000234
                     002416
003020
                                                                           70$
       97
          000236
                                                                BGT
                                                                           888
       98
          000240
                     077504
                                                                           R5,55$
                                                                                                           ; CHECK - NEXT - WORD
       99
                                                                MATCHED UHL, HRL DOCUMENT IDS
      100
      101
          · 000242 ·
000246
000250
000254
                     005767
001406
      102
                                004166
                                                                           EOHRL.
                                                                                                           :END.OF.OLD.MERGE.FILE
:BRANCH.IF NOT.
      103
                                                                BED
                                                                           60$
      104
                     016702
                                004240
                                                                MOV
                                                                           EODFLG, R2
                                                                                                           :LOAD END OF DATA SENTINEL
:IMMEDIATE ENTRY:
:OUTPUT SENTINEL
                     005003
                                                                CLR
                                                                           R3
      106
          000256
000262
                                                                CALL
      107
108
                     000413
                                                                BR
                                                                           90$
                                                                                                           CLEANUP · MERGE · COMMAND ·
          000264
                                                     60$:
      109
                                                                          MRGDEQ.
                                                                CALL -
                                                                                                           ; PROCESS - MATCHED - ENTRIES -
      110 000270
                     000746
                                                                                                           GET HEXT HRL AND UHL ENTRIES
     112
113 000272
114 000272
                                                                UHL-ENTRY-IS LOW-
                                                     20$:
                                                                CALL
                                                                          MRGDLT
                                                                                                           :TRANSFER OLD UHL ENTRY
      115
          000276
                     000745
                                                                           40$
                                                                                                           ; GET · NEXT · UHL · ENTRY
      116
      117
                                                                HRL · ENTRY · IS LOW ·
      118
          000300
                                                     30%:
          000300
000304
      119
                                                                CALL
                                                                           MRGDGT.
                                                                                                          ;TRANSFER OLD HRL ENTRY:
;GET NEXT HRL ENTRY:
;GO TO COMPARE CYCLE
                                                                CALL
                                                                           HGET
          000310
                    000742
                                                                BR
                                                                           50$
```

HRLMRG- M D-M1110 27-MAR-80 13:29 PAGE-13 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3 123 124 000312-125 000312-126 000316 127 000322-128 000330 129 END-OF-MERGE CLEANUP Эй⊈: 012701 0045201 MOV-#IOCB1,R1 :LOAD:THE:UHL:SUBFILE:IOCB: :RELEASE:LAST:BUFFER :RESET:THE IOCB: :CLOSE:THE SPOOL:FILE: RELBUF: #BUFOPN!BUFEOF,ATTR(R1) CALL 142761 000240 000007 CL0SE\$.0 000340 131 000344 132 000350 133 134 00PT 012701 0045441 MOV: CALL BICB 142761 000240 000007 012701 004570 MOV. 135 136 000362 000366 CALL WAIT\$ BICB∙ 137 138 000404 000412 142761 000240 000007 CLOSE\$ 139 140 000416 016702 016262 016162 :GET-BATCH STATUS-TABLE :SET-UP-NEW-INITIAL READ-BLOCK :SET-UP-NEW-INITIAL-WRITE BLOCK 004002 MOV BSTADR,R2. B.HRLW(R2),B.HRLR(R2) CBLK(R1),B.HRLW(R2) 000422 000430 000124 MOV MOV 141 000122 142 000124 MERGE COMMAND EXIT 000436 145 HLMERX: 000436 000207 RETURN

```
HRLMRG- MACRO:M1110 27-MAR-80 13:29 PAGE:14
HLMERG- MERGE:UHL:COMMAND: Approved For
                                                                                  Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
          149
                                                                                                                    MATCHED DOCUMENT ID PROCESSING SUBROUTINE.
          150
          151
                   999449
                                                                                                 MRGDEQ:
                   000440
          152
                                      032714
                                                                                                                                                                                                 #ODD NUMBER OF EXISTING QIDS?
#IF SO, PAD BYTE NOT AVAILABLE
#PICK UP QUERY COUNT
                                                         000001
                                                                                                                                        #BIT0.0R4
          153 000444
                                                                                                                                        10$
                                                                                                                    BON
                   000446
                                        112403
          154
                                                                                                                                        (R4) + .R3
                                                                                                                    MOVB
                                                                                                                                                                                                #PICK UP OUERY COUNT
CLEAR HIGH ORDER BITS
POINT TO PAD BYTE
#STORE QUERY ID INTO PREVIOUS PAD BYTE
#SET START OF ENTRY
BUMP COUNT OF QIDS
CALCULATE HRL ENTRY WORD LENGTH
#TRANSFER MERGED ENTRY
#EXIT TO GET NEXT UHL AND HRL ENTRIES
          155
156
                  000450
000454
                                      042703
060304
                                                                                                                    BIC
                                                                                                                                        ++0177400,R3
                                                                                                                                       R3.R4
ORYID.@R4
                                                                                                                    ADD
                                      116714
016702
          157
                   000456
                                                          003714
                                                                                                                     MOVB
           158
                   000462
                                                          004010
                                                                                                                                       HDOC, R2
6(R2)
                                                                                                                    MOV
                                                                                                                                                                                                                                                                       in the supplication
           159
                   000466
                                       185262
                                                          000006
                    000472
                                                                                                                    CALL
                                                                                                                                       HRLHTH
          161
                   999476
                                                                                                                     CALL
                   000502 000421
          163
                                                                                                                  PREVIOUS QUERY COUNT WAS ODD - THIS MEANS THAT THE MERGED ENTRY IS ONE WORD LONGER THAN THE OLD ENTRY. WE TRANSFER THE ENTRY. IN TWO HPUT CALLS. THE QID COUNT IS BUMPED (IN THE HRL INPUT BUFFER) AND THE FIRST HPUT CALL TRANSFERS ALL EXCEPT THE NEW LAST WORD DIRECTLY FROM THE INPUT BUFFER, THE SECOND HPUT CALL IS AN IMMEDIATE TRANSFERS. OF THE CURRENT QID (I.E., ORYID LOADED INTO THE LOW ORDER BYTE OF R3). THERE IS, HOWEVER, ONE PITFALL TO BE AVOIDED, IF THE OLD ENTRY WOULD HAVE EXACTLY FIT THE REMAINING SPACE IN THE MRG OUTPUT BUFFER, TO TRANSFER THE ENTRY IN TWO HPUT CALLS WOULD SPLIT IT ACROSS BLOCK BOUNDARIES. TO MAKE SURE THAT THIS DOES NOT HAPPEN, SCOUNT (THE AMOUNT OF SPACE REMAINING IN THE OUTPUT BUFFER) IS DECREMENTED BEFORE THE FIRST HPUT CALL;
          164
           i 65
          166
           167
          168
          169
170
          171
172
          173
          174
175
          176
177
                    000504
                                                                                                  10$:
                                                                                                                                                                                                SET START OF DOCUMENT
CALCULATE WORD LENGTH OF DLD ENTRY
BUMP GID COUNT
ALLOCATE POTENTIAL SPACE FOR 2ND HPUT
MOVE FIRST SEGMENT OF MERGED ENTRY
CORRECT THE SPACE COUNT
SET UP SECOND SEGMENT OF MERGED ENTRY
IMMEDIATE ENTRY TRANSFER
MOVE SECOND SEGMENT
                                                                                                                                                                                                                                                                           w. Are
                   000504
                                      016702
                                                         003766
                                                                                                                    MOV
                   000510
                                                                                                                                       HRLNTH-
6(R2)
                                                                                                                    CALL
                                       105262
          179
                   000514
                                                         аааааас
                                                                                                                     INCB
                   000520
                                       005367
                                                          003732
                                                                                                                    DEC:
                                                                                                                                       SCOUNT
          181
                   000524
                                                                                                                                       HPUT
                   000530
                                       005267
                                                          003722
                                                                                                                                       SCOUNT
                                                                                                                     INC
          183
                   000534
                                      016702
005003
                                                          003636
                                                                                                                    MOV.
                                                                                                                                       QRYID, R2
           184
                   000540
                                                                                                                    CLR
                                                                                                                                       R3
          185
                   000542
                                                                                                                                       HPUT
                    000546
                                                                                                 30$:
                                      000207
                   000546
                                                                                                                    RETURN-
```

The second of the second

```
O-M1110 27-MAR-80 13:29 PAGE-15
GE-UHL-COMMAND- Approved Fo
HRLMRG- M
                                                             Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
       189
190
                                                                                      TRANSFER OLD UHL SUBROUTINE
       190
191 000550
192 000550
193 000554
194 000562
195 000566
                                                                        MRGDLT:
                                                                                                                                                                  Tribune water V.
                            012702
116767
012703
                                          004466'
003616
000004
                                                                                                    #UDOC,R2
QRYID,UDOC+7
#4,R3
                                                                                     MOVB
MOV
CALL
RETURN
                                                       003713
       195 000566
196 000572-
197
198
199
200
201 000574
202 000574
202 000650
204 000600
204 000600
205 000610
206
                                                                                                    HPUT
                                                                                      TRANSFER-OLD HRL-SUBROUTINE
                                                                        MRGDGT:
                            016702 - 003676
                                                                                      MOV
                                                                                                    HDOC,R2
                                                                                                    HRLNTH-
                                                                                      CALL:
                            000207
                                                                                      RETURN:
       207
208
                                                                                      CALCULATE:WORD:SIZE:OF (MERGED) HRL:ENTRY:SUBROUTINE: (R2) =:ADDRESS:OF:START:WORD:OF:ENTRY: (R2)+6) =:NUMBER:OF:QUERY:IDS:IN:THE:ENTRY:
       209
210
211
212-000612
                                                                        HRLNTH:
       213 000612
214 000616
215 000622
216 000624
                                                                                     MOVB
ADD
ASR
RETURN
                            116203
062703
006203
                                                                                                    6(R2),R3
#8.,R3
                                                                                                                                               000006
000010
                                                                                                    R3
                             000207
```

HRLMRG- NACRO-M1110 27-MAR-80 13:29 PAGE-16
HLTERM-- TERMINATE-HRL-PROCESSING Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3

HRLMRG- MO-M1110 27-MAR-80 13:29 PAGE-17
HLABRT- THRL-PROCESSING-FOR-APPROVED FOR Release 2005/07/2 CIA-RDP85-00514R000100030001-3

		• • •				
226 227			;	.SBTTL	HLABRT ABORT HRL PROCE	ESSING-FOR-BATCH-
228-000642-			HLABRT:			
229 000642	016703	003556		MOV.	BSTADR,R3	GET CURRENT BATCH STATUS TABLE
230 000646	005763	000124		TST.	B.HRLW(R3)	#AS HRL MRG BEEN INITIALIZED
				BEQ.	20\$	EXIT- IF-SO-
232-000654	005267	003604		INC -	ABRTFL.	:SET-ABORT FLAG.
233 000660				CALL.	HLINIT.	; INITIALIZE · HRL · FILE
234 000664	016002	000004		MOV.	F.HIBK(R0),R2	:GET-ORIGINAL-HRL-FILE-ALLOCATION-
235 000670 236 000672	006202			ASR ·	R2·	CONVERT TO LOGICAL BLOCKS.
237 000674		000400		ASR ·	R2·	
238 000700	010263 005063	000120 000124		MOV.	R2.B.HBLK(R3)	;RESTORE.ORIGINAL.HRL.FILE.SIZE.
239 000704	005065	000124		CLR.	B:HRLW(R3)	;RESET-HRL FILE-INITIALIZED-FLAG-
240 000710	003001	003334		CLR.	ABRTFL.	;CLEAR·ABORT·FLAG·
241 000714			20\$:	CALL	.DLFNB	; DELETE · THE · HRL · FILE
242.000714	105267	003453	204.	INCB:	CMDX	OFT UP ABOUT
243 000720	000241	000 100		CLC.	CLIDY	:SET.UP.ACKNOWLEDGE.CODE.
244 000722	000207			RETURN.		; SET · NORMAL · RETURN · CODE ·

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HRLMRG- MACRO-M1110 27-MAR-80 13:29 PAGE-18
HLPROB-- PROBE-UHL-SIZE-SUBROUTINEApproved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
        246
247
                                                                                                 .SBTTL · HLPROB · - PROBE UHL · SIZE · SUBROUTINE
               000724
000724
        248
                                                                                ĤLPROB:
                                                                                                                                                               ; DOES CURRENT QID HAVE UHL SUBFILE?
; IF NOT, AUTOMATIC SUCCESS OF PROBE;
; GET CURRENT BATCH STATUS TABLE
; HAS HRL MRG ALREADY BEEN TINITIALIZED?
; IF SO, WE NEED NOT OPEN HRYFILE
; INITIALIZE HRL FILE
; DAD THE ICOS AGAIN
; FORCE LAST BUFFER TO BE OUTPUT
; REDUCE AVAILABLE HRL BLOCK COUNT
; MAKE SURE ALL WRITE BEHIND COMPLETE
; RESET THE ICCB
; CLOSE THE HRL MRG FILE
        249
                                 005767
                                                003476
                                                                                                                 HBUHL
        250
                000730
                                001530
016703
                                                                                                                HLPRBX
BSTADR,R3
B.HRLW(R3)
                                                                                                 BEQ
        251
                 000732
                                                 003466
                                                                                                 MOV
        252
                000736
                                005763
                                                 000124
        253
                 000742
                                001022
                                                                                                 BNE
                                                                                                                 10$
        254
                000744
                                                                                                 CALL
                                                                                                                 HLIHIT
        255
256
                 000750
                                012701
                                                0045701
                                                                                                                 #IOCB3.R1
RELBUF
                                                                                                 MOV
                000754
                                                                                                 CALL
        257
                 000760
                                005363
                                                000120
                                                                                                                 B.HBLK(R3)
,EVHT(R1)
                                                                                                 DEC
        258
               999764
                                                                                                 WAIT$
        259
260
                000776
                                 142761
                                                000240 000007
                                                                                                 BICE:
                                                                                                                 #BUFOPN!BUFEOF.ATTR(R1)
                001004
                                                                                                 CLOSE$
        261
                                                                                                APPLY-BLOCK-TEST: IF-((NBUHL*4)+2)/3 <=-B:HBLK; THE-UHL-SUBFILE WILL-DEFINITELY-FIT: THUS; IF-THIS-CONDITION-IS-TRUE; WE-DO-NOT READ-THE-UHL SUBFILE-TO-DETERMINE-THE-ACTUAL-NUMBER-OF-ENTRIES.
        262
        263
264
        265
266
                001010
                                                                                 10$:
        267
268
                001010
                                016701
                                                                                                MOV
                                                                                                                HBUHL,R1
                                                                                                                                                                 GET NUMBER OF UHL BLOCKS
                                006301
                                                                                                ASL
        269
270
               001016
001020
                                006301
062701
                                                                                                ASL.
                                                                                                                R1
                                                                                                                #2.R1
R0
                                                000002
                                                                                                 ADD
        271
272
               001024
001026
                                                                                                                                                                #SET-UP-AND-PERFORM-DIVIDE #END-OF-REQUIRED-HRL BLOCKS CALCULATION #GET-CURRENT-BATCH-STATUS-TABLE #COMPARE WITH REMAINING HRL BLOCK-COUNT-
                                005000
                                                                                                CLR
                                                000003
                                071027
                                016703
                001032
                                                 003366
                                                                                                MOV
                                                                                                                BSTADR, R3
                                020063
               001036
                                                000120
                                                                                                 CMP
                                                                                                                RØ.B.HBLK(R3)
        275
276
               001942
                                003462
                                                                                                BLE
                                                                                                                                                                ; UHL - WILL - DEFINITELY FIT
                                                                                               AT THIS POINT, IF WE REDUCE BY 1 THE REQUIRED NUMBER OF HRL BLOCKS, AND THERE ARE STILL NOT ENOUGH HRL BLOCKS LEFT, TOBTAINING THE ACTUAL ENTRY COUNT IS FUTILE, SINCE THE ESTIMATED REQUIRED BLOCKS (AS CALCULATED FROM AN ENTRY COUNT) WOLL OF FAIL ANYWAY, THUS HERE TOO, THERE IS NO NEED TO OPEN THE UHL SUBFILE.
        277
        278
        279
        200
        281
        283 001044
284 001046
                                                                                                DEC :
CMP :
BGT :
                                005300
                                020063
                                                000120
                                                                                                                R0.B.HBLK(R3)
               001052
                                003054
                                                                                                                18$
                                                                                                                                                                ; REPORT: NO FIT: ESTIMATE
```

```
0-M1110 27-MAR-80 13:29 PAGE:19
RE:UHL:SIZE:SUBROUTINEApproved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
HRLMRG-
HLPROB -
                                                                              THE CASE WE HAVE NOW IS THAT THE UHL FILE MAY POSSIBLY FIT, DEPENDING UPON THE ACTUAL NUMBER OF ENTRIES IN THE LAST BLOCK. SO WE WILL PROCED TO READ THE SUBFILE HEADER TO EXTRACT THE ACTUAL UHL ENTRY COUNT.
      288
      289
290
      291
292-001054
                         012702
                                       8845281
                                                                              MOV
MOV
                                                                                           #IOCB1,R2
STUHL,LBLK(R2)
ULINIT
                                                                                                                                   #IOCB-OF-UHL-SUBFILE
#PRIME-ONLY-A-SINGLE BUFFER
#GET-FIRST BLOCK-OF-UHL-
             001060
       293
                          016762
                                       003344
                                                    000012
       294
            001066
                                                                              CALL
      295
296
            001072
                                                                                                                                   :BRANCH IF OK:
:MSGOUT PARAMETER
                                                                              BCC
                                                                                            12$
            001074
                          016767
                                       003276
                                                    003276
                                                                              MOV
                                                                                           QRYID, PAR1
            001102
001122
       297
                                                                              MOUT$S
                                                                                                                                   :OPEN FAILURE - UHL SUBFILE :SET RETURN CODE TO FAILURE :EXIT SUBROUTINE
                                                                                           #MSG2, #MSGPAR
       298
                          000261
                                                                              SEC
       299
            001124
                          000432
                                                                              BR
                                                                                           HLPRBX-
       300
                                                                  12$:
       301 001126
302-001132
                          012701
                                       0045201
                                                                              MOV
                                                                                                                                  ;LOAD-THE-UHL-SUBFILE-IOCB
;RELEASE-LAST-BUFFER
;RESET-THE IOCB-
;CLOSE-THE SPOOL-FILE-
                                                                                            #IOCB1,R1
                                                                                           RELBUF.
#BUFOPN!BUFEOF.ATTR(R1)
                                                                              CALL
BICB
       303
            001136
                           142761
                                       000240
                                                    000007
       304
            001144
                                                                              CLOSE$
                                                                                           FDBAD(R1)
       305
             001154
       306
                          005767
                                       003256
                                                                              TST
                                                                                           UHLONT:
                                                                                                                                   :CHECK · UHL ENTRY · COUNT
            001160
001162
       307
                          001413
                                                                                                                                  ; IF NONE, AUTOMATIC FIT:

;EACH GROUP OF 256 UHL ENTRIES

;POTENTIALLY REQUIRES A BLOCK

; IN THE MERGED HRL FILE
                                                                              BEQ.
                                                                                           20$
       308
                                       003251
                                                                                           UHLCHT+1.R1
UHLCHT
                          116701
                                                                              MOVB
            001166
       309
                           105767
                                       003244
                                                                               TSTB.
       310
                          001401
                                                                              BEQ
                                                                                            15$
      311
312
            001174
001176
                                                                                                                                   ; IN-THE-WORST-CASE-OF-NO-DOC-ID-OVERLAP
                                                                               INC
                                                                  15$:
            001176
001176
001202
001204
001204
001210
001210
      313
314
315
                          020163
                                       000120
                                                                                           R1.B.HBLK(R3)
                                                                                                                                   :COMPARE-ESTIMATED-BLOCKS-WITH ACTUAL
                          003402
                                                                              BLE
                                                                                           20$
                                                                  18$:
      316
317
318
                          105267
                                       003163
                                                                              INCB
                                                                                           CMDX
                                                                 20$:
                          000241
                                                                              CLC
       319
                                                                 HLPRBX:
            001212
                          000207
                                                                              RETURN-
```

```
HRLMRG- MACRO:M1110 27-MAR-80 13:29 PAGE:20 LOCATE:BATCH:TABLE:AND:QUERY:SPOOLApprovedeRon Release 2005/07/28:CIA-RDP85-00514R000100030001-3
                                                                                                                                                                                          .SBTTL: LOCATE:BATCH:TABLE:AND:QUERY:SPOOL FILE:SUBROUTINE:
                323
                                                                                                                                                                                       THIS ROUTINE INTERPRETS THE COMMAND PACKET SENT BY MSCHED IT LOCATES AND VERIFIES THE CORRECT BATCH STATUS TABLE TO BE USED IT LOCATES THE QUERY SPOOL FILE DATA WITHIN THE BST. EXTRACTS THE START BLOCK OF THE UHL SUBFILE AND THE NUMBER OF UHL BLOCKS, AND EXITS WITH R1 POINTING TO THE FDSC OF THE QUERY SPOOL FILE AND THE POINTING TO THE PROPERTY.
                324
325
                326
                327
                328
                329
330
331
332
                              001214
                                                                                                                                                           ĹOCQRY:
                             001214
                                                               105067
                                                                                             003155
                                                                                                                                                                                         CURB
                                                                                                                                                                                                                       BCHNO+1
                                                            016702
016203
                                                                                            003150
                                                                                                                                                                                                                       BCHNO, R2
                                                                                                                                                                                         MOV
                                                                                                                                                                                                                                                                                                                   :GET-COMMAND-BATCH-NUMBER
:GET-ADDRESS-OF-BST-
                333
334
                             001224
001230
                                                                                             000000G
                                                                                                                                                                                                                      BSTPTR(R2).R3
R3.BSTADR:
#1.CMDX:
LOCXIT:
                                                                                                                                                                                         MOV
                                                             010367
                                                                                             003170
                                                                                                                                                                                                                                                                                                                  #GET - HDDRESS - UF - BST - 

#SAYE - IT - 

#IS-THIS - ABORT - OR - TERMINATE - COMMAND? - 

#EXIT - IF - SO - 

#CHECK - QUERY - ID - IN - COMMAND - PACKET - 

**PAGE - TE - LOST - AND - TE - AND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - TE - COMMAND - PACKET - 

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*** PAGE - TE - COMMAND - PACKET - 

*** PAGE - PAGE - PACKET - 

*** PACKET -
                335
336
                             001234
001242
                                                                                                                          003131
                                                                                                                                                                                         BITB
                337
                              001244
001250
                                                              016701
                                                                                             003126
                                                                                                                                                                                                                      QRYID,R1
                                                                                                                                                                                         MOV
                338
                                                             003015
                                                                                                                                                                                                                       20$
25$
                                                                                                                                                                                                                                                                                                                  #BRANCH IF VALID AND ID > 0
#BRANCH IF VALID AND ID = 0
#STORE QUERY ID AS MSGOUT PARAMETER
#INVALID QUERY ID
                              001252
001254
                339
                                                              001416
                                                                                                                                                                                        BED
                340
                                                             010167
                                                                                            003120
                                                                                                                                                                                                                       R1.PAR1
                341
342
343
344
                             001260
                                                                                                                                                                                        MOUT#S:
                                                                                                                                                                                                                       #MSG5, #MSGPAR
                                                             000261
                                                                                                                                                                                                                                                                                                                   :SET-FAILURE-RETURN-CODE
                             001302
001304
                                                             000415
                                                                                                                                                                                                                       LOCKIT:
                                                                                                                                                                                        BR
                                                                                                                                                         20$:
                345
346
                             001304
                                                             070127
                                                                                            000014
                                                                                                                                                                                       MUL
                                                                                                                                                                                                                       #Q.SIZE,R1
                                                                                                                                                                                                                                                                                                                   :OFFSET TO QUERY ENTRY.
                                                                                                                                                         25$:
                            001310
001314
001316
001322
                347
                                                             062701
                                                                                                                                                                                                                       #8.QSPL,R1
                                                                                                                                                                                        ADD
                                                                                                                                                                                                                                                                                                                   ;DISPLACEMENT IN BST
                348
                                                                                                                                                                                                                                                                                                                  #ADDRESS OF SPOOL FILE DATA TH BST

#ADDRESS OF SPOOL FILE DATA TH BST

#FETCH NUMBER OF QUERY BLOCKS

#FETCH NUMBER OF UHL BLOCKS

#SAVE FDSC ADDRESS OF QUERY SPOOL FILE

#POINT TO START OF UHL BLOCK
                                                             060301
                                                                                                                                                                                        ADD
                                                                                                                                                                                                                       R3.R1
                                                                                                                                                                                                                       (R1)+,STUHL
(R1)+,NBUHL
                349
                                                             012167
                                                                                                                                                                                        MOV
                350
                                                             012167
                                                                                            003100
                                                                                                                                                                                         MÖV
               351
352
353
354
                              001326
                                                                                                                                                                                        MOV
                                                                                                                                                                                                                       R1.FDUHL
                              001332
                                                             005267
                                                                                            003072
                                                                                                                                                                                         IHC
                                                                                                                                                                                                                       STUHL.
                              001336
001336
                                                                                                                                                         LOCKIT:
                                                             000241
                                                                                                                                                                                                                                                                                                                  :SET-SUCCESS-RETURN-CODE
                              001340
                                                             000207
                                                                                                                                                                                        RETURN
```

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AND THE PROPERTY OF THE

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the second
                    0-M1110 27-MAR-80 13:29 PAGE-21 CIA-RDP85-00514R000100030001-3
INITIALIZ
                                                                                                    .SBTTL - INITIAL (ZE-HRL MERGE-FILE-SUBROUTINE-
                                                                                                  THIS SUBROUTINE OPENS THE HRL FILE USING TOCBS (OUTPUT OPERATIONS). SPACE FOR THE HRL FILE IS ALLOCATED (AS DETERMINED BY B.HBLK). IF THE HRL FILE HAS NOT BEEN INITIALIZED YET IN THIS BATCH CYCLE. AN END OF FILE SENTINEL IS WRITTEN IN THE FIRST BLOCK, AND THE FORMON FIELDS B.HRLR AND B.HRLW ARE INITIALIZED. THE PROGRAM ALSO SETS THE END OF HRL DATA FLAG AND POINTS TO THE DUMY. DOCUMENT ID SO THAT THE MERGE LOGIC CAN BE INDIFFERENT TO WHETHER IT IS WORKING WITH THE FIRST OR LATER QUERY. IT THE MERGE FILE HAS BEEN INITIALIZED ON A PREVIOUS TAIL. THE PROGRAM STARTS PRIMING INPUT HRL BUFFERS (USING 10CB2) WITH OLD MASTER HRL DATA, ASSIGNS A BUFFER TO THE PROGRAM FOR THE NEW MASTER FILE, AND TRANSFERS A HEADER RECORD TO THE OUTPUT BUFFER.
        359
        360
        361
        362
        363
        364
        365
        366
        367
        368
        369
        370
371
        372
373
               001342
001342
                                                                                  ĤLINIT:
                                                                                                   SAVE
                                                                                                                                                                     #OUTPUT-IOCB-FOR-HRL MERGE-FILE-
#GET-ITS-FDB-
#GET-ADDRESS-OF-BST-
#HAS-THE-FILE-BEEN-ALLOCATED-YET?-
#BRANCH-IF-SO-
#FILE-NUMBER-OF-HRL_MRG-
#CONSTRUCT FILE-NAME BLOCK-IN-THE-FDB-
#GET-REQUIRED-SPACE-FOR-HRL-FILE-
#CONSTRUCT FILE-NAME BLOCKS-
        374 001344
375 001350
                                 012700
                                                                                                   MOV.
                                                                                                                    #IOCB3,R0
                                016000
                                                                                                                   FDBAD(R0),R0
BSTADR,R2
                                                 000004
                                                                                                   MOV
        376 001354
377 001360
                                016702
005762
                                                 003044
                                                                                                   MOV
                                                 000124
                                                                                                    TST
                                                                                                                    B.HRLW(R2)
               001364
001366
        378
                                001060
                                                                                                    BHE
                                                                                                                     15$
                                012701
                                                 000010
                                                                                                                     #FH:MHR,R1
                                                                                                   MOV
                                                                                                                   BLDNFL B.HBLK(R2).R3
        380 001372
                                                                                                    CALL
        381
                001376
                                016203
                                                 000120
                                                                                                   MOV
        382
               001402
                                006303
                                                                                                   ASL
ASL
        383
               001404
                                006303
               001406
        384
                                                                                                   FDAT$R
                                                                                                                    R0,...R3
                                                                                                                                                                      :ALLOCATE · SPACE ·
        385 001412
386 001424
                                                                                                   0FNB$W
                                                                                                                                                                     OPEN-FILE

BRANCH-IF OPEN-WAS-OK

REPORT-ERROR-IF-OPEN-FAILED

SET-FAILURE-CONDITION-CODE
                                                                                                                                                                                                                                  103012
                                                                                                   BCC
                                                                                                                     10$
               001426
001446
        382
                                                                                                   MOUT$S
                                                                                                                    #MSG1, #MSGPAR
        388
                                000261
                                                                                                   SEC
        389
               001450
                                000542
                                                                                                                    HLHITX.
                                                                                                                                                                      :EXIT-SUBROUTINE
        390
                001452
                                                                                  10$:
                                005262
                                                                                                                                                                     #SET: UP: HRL: MRG: WRITE: POINTER:
#SET: UP: HRL: MRG: READ POINTER:
#GET: ADDRESS: OF: THE: FDSC: FOR: HRL: MRG
        391
               001452
                                                 000124
                                                                                                    INC
                                                                                                                    B:HRLW(R2)
                001456
                                016262
                                                 000124
                                                                 000122
                                                                                                   MOV
                                                                                                                    B:HRLW(R2),B:HRLR(R2)
                                012701
060201
                                                                                                   MOV
ADD
        393
               001464
                                                 000172
                                                                                                                     #B.FMHR,R1
        394
               001470
                                                                                                                    R2.R1
                                                                                                                   F.FNB+N.FID(R0),(R1)+
F.FNB+N.FID+2(R0),(R1)+
F.FNB+N.FVER(R0),(R1)+
                                                                                                                                                                                                                                                       2.25
        395
                                                 000102
               801472
                                016024
                                                                                                   MOV
                                                                                                                                                                      :SET-UP-FILE-DESCRIPTOR-
               001476
001502
        396
                                016021
                                                 000104
                                                                                                   MOV
                                                                                                                                                                     :FILE · ID ·
:VERSION · NUMBER
        397
                                                                                                   MOV
MOV
                                016021
                                                 000120
                                                                                                                                                                     FILE NUMBER:

SET LEND OF MASTER FILE FLAG:

SET UP DUMMY DOC ID FOR HRL FILE:

BRANCH TO PUT HEADER RECORD:
        398 001506
                                012711
                                                 000010
                                                                                                                    #FN:MHR:(R1)
        399
               001512
                                005267
                                                 002716
                                                                                                    INC
                                                                                                                    EOHRL
        400
                                 012767
                                                 0045001
                                                                 002752
                                                                                                                    #EOFDOC, HDOC
                                                                                                   MOV
        401 001524
                                000463
```

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HRLMRG- MACRO-M1110 27-MAR-80 13:29 PAGE-22
INITIALIZE HRL MERGE FILE SUBROUTIApproved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                     SET-UP-MULTIPLE-BUFFERING-OF-INPUT-HRL
      404
           001526
001526
      495
                                                          15$:
      406
                       012701
                                  000172
                                                                     MOV
                                                                                 #B.FMHR.R1
                                                                                                                   GET ADDRESS OF THE FDSC FOR HRL MRG.
      407
408
           001532
                                                                     ADD
                                                                                                                  :BUILD-FILE-NAME-BLOCK-IN-FDB...
:OPEN-FILE
:BRANCH-IF OPEN-WAS-OK.
:REPORT-ERROR-IF-OPEN-FAILED-
:SET-FAILURE-CONDITION-CODE-
-EVIT-SUBPOUTINE.
           001534
                                                                     CALL
                                                                                BLDEFL
      409 001540
410 001552
                                                                     OFNESM:
                       103012
      411
           001554
001574
                                                                     MOUT$S: #MSG1,#MSGPAR
      412
                       000261
      413 001576
414 001600
                       000467
                                                                                HLNITX.
                                                                     BR
                                                                                                                   EXIT SUBROUTINE
                                                         20$:
      415
           001600
                                                                     TST
                                                                                ABRITEL
                                                                                                                   : ABORT - COMMAND? -
      416
           001604
                       001064
                                                                                HLHITX
                                                                                                                   ;EXIT-IF-SO:
;GET-INPUT HRL-IOCB
           001606
                       012701
                                  004544*
                                                                     MOV
                                                                                #IOCB2,R1
B.HRLR(R2),CBLK(R1)
      418 001612
                       016261
                                  000122
000124
                                              000010
                                                                                                                  *DEFINE-LOGICAL-START-OF-FILE-
*DEFINE-LOGICAL-END-OF-FILE(WRAPAROUND)
*RESET-END OF-HRL-FILE-FLAG-
*START-PRIMING-INPUT BUFFERS-
*ASSIGN-FIRST-BUFFER TO-PROGRAM-
*GET-BUFFER-ADDRESS-
      419
           001620
                       016261
                                              000012
                                                                     MOV
                                                                                B.HRLW(R2), LBLK(R1)
      420
           001626
                       005067
                                  002602
                                                                                EOHRL
           001632
                                                                     CALL
                                                                                BUE TO
      422 - 001636
                                                                                GETBUF
      423
           001642
                       016100
                                  000014
                                                                     MOV
                                                                                CBUF(R1),R0
                      026720
001402
      424
           001646
                                  002636
                                                                                HRLHDR, (RØ)+
                                                                                                                   :VERIFY-PRESENCE-OF-FILE-HEADER
:BRANCH-IF-OK-
           001652
      426
      427
                                                                    IF WE-GET-HERE, SOMEONE-HAS-SCREWED-UP-THE POINTERS-IN-COMMON \overline{\mathbb{Q}} OR THERE-IS-SOME-SORT-OF-TIMING-BUG-
      428
      429
      430
           001654
001656
                       000261
                                                                    SEC
BR
      431
                       000437
                                                                                HLHITX-
      432
      433
           001660
                                                         25$:
      434
           001660
                       005720
                                                                                                                  :SKIP-PAST PAD-WORD-
:SET-UP-FOR-HGET-CALLS-
:INITIALIZE-REMAINING-BUFFER-SPACE
                                                                     TST.
     435
           001662
                       010067
                                                                     MOV
                                                                                RØ. HRL NXT
           001666
                      012767
                                  003774
                                             002556
                                                                     MOV.
                                                                                #M.BUFB-4, HRLCHT
     437
                                                                     SET-UP-WRITE BEHIND-OUTPUT-FOR-NEW MERGE-FILE (WI<u>IH: WROP AROUND)</u>
     439
     440
           001674
                                                                                                                                                        .72.12
                                                         30$:
           001674
001700
     441
                       012701
                                  004570*
                                                                     MOV
                                                                                #I0083.R1
                                                                                                                   :GET · IOCB · FOR · NEW · HRL · FILE ·
                                                                                                                  016261
                                  000124
                                             000010
                                                                    MOV.
CALL
                                                                                B.HRLW(R2), CBLK(R1)
     443
           001706
                                                                                GETRUE.
           001712
     444
                       016167
                                  000014
                                             002530
                                                                                CBUF(R1).HRLOUT.
#N.BUFW.SCOUNT
                                                                     MOV.
                      012767
012702
                                  002000
004510
     445
                                             002530
      446
                                                                    MOV
                                                                                #HRLHDR, R2
     447 001732
448 001736
449 001742
                      012703
                                  000003
                                                                                #3,R3
                                                                     CALL
                                                                                HPUT
                      005267
                                  00251A
                                                                     THC
                                                                                SCOUNT
     450 001746
451 001754
452 001756
453 001756
                       162767
                                  000002
                                             002474
                                                                     SUB
                                                                                #2, HRLOUT
                      000241
                                                                                                                  ;SET-SUCCESS-RETURN-CODE-
                                                         HLNITX:
                                                                    RESTOR -
     454 001760
                      000207
                                                                    RETURN
```

```
D-M1118 27-MAR-88 13:29 PAGE-23
FILE-SUBROUTINE-(ULINApproved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
HRLMRG-
START- UP
                                                                                                                                                                                           .SBTTL - START - UP - UHL - FILE - SUBROUTINE - (ULINIT)
                456
                457
                                                                                                                                                                                        THIS.SUBROUTINE-INITIALIZES.THE-USER-HIT-FILE-FOR-INPUT.
IT IS-CALLED BY-BOTH-THE-PROBE-UHL-AND-THE MERGE-UHL COMMANDS-
IF NO-USER-HIT-LIST-IS INDICATED (BY-THE-NUMBER-OF-UHL-BLOCKS-
IN THE-QUERY'S-BST), UHLCNT-WILL BE-SET-TO 0, AND-THE-RTURN-
WILL-INDICATE-SUCCESS, IF-THE-NUMBER-OF-UHL-BLOCKS-IS-POSITIVE,
THE-QUERY-SPOOL-FILE-WILL-BE-OPENED, AND-THE-INDICATED-BUFFERS
WILL-BE-PRIMED-WITH-INPUT, IF-THE-OPEN-FAILS, THE-RETURN-CODE-
WILL-BE-SET-TO-INDICATE-FAILURE, ON-ENTRY, R1 -> THE FDSC-
OF THE-QUERY SPOOL-FILE, AS-OBTAINED-FROM-THE-BST.
                458
                459
                460
                461
               462
463
                464
                 465
                466
467
                468 001762
                                                                                                                                                            ULINIT:
                469
                               001762
                                                              005067
                                                                                                                                                                                          CLR
                                                                                                                                                                                                                         UHLCHT.
                                                                                                                                                                                                                                                                                                                      ; INITIALIZE · NUMBER · OF · UHL · ENTRIES ·
                                                                                                                                                                                                                                                                                                                      CHECK NUMBER OF UHL BLOCKS:
CHECK NUMBER OF UHL BLOCKS:
BRANCH IF THERE ARE NONE
LOAD FDB ADDRESS OF QUERY SPOOL FILE
LOAD FDSC ADDRESS OF QUERY SPOOL FILE
INITIALIZE FILE NAME BLOCK IN FILE
OPEN THE QUERY SPOOL FILE.
                             001766
001772
001774
                470
                                                              005767
003440
                                                                                             002434
                                                                                                                                                                                          TST
BLE
                                                                                                                                                                                                                         NBUHL.
                471
                                                                                                                                                                                                                         20$
                472
473
                                                                                                                                                                                          MOV
MOV
                                                              012700
                                                                                              0046141
                                                                                                                                                                                                                          #FDB1,R0
                                                                                                                                                                                                                          FDUHL, R1
                               002000
                                                              016701
                                                                                              002426
                474
475
                               002004
002010
                                                                                                                                                                                          CALL.
OFNB$R
                                                                                                                                                                                                                         BLDEFL
                476
477
                               002022
                                                               103425
                                                                                                                                                                                          BCS
                                                                                                                                                                                                                          ULHITX:
                                                                                                                                                                                                                                                                                                                        :EXIT SUBROUTINE : IF OPEN FAILURE
                                                                                                                                                                                                                                                                                                                      # LOAD LOCE FOR UHL FILE # POINT TO UHL SUBFILE # INITIALIZE UHL BUFFER POINTER # START PRIMING THE UHL # START PRIMING THE UHL # START PRIMING FILE # FROM THE UHL # START PRIMING FILE # FROM THE UHL # # FROM THE
                                                              012701
016761
                                                                                                                                                                                                                          #TOCB1.R1
                478
479
                               002024
                                                                                              0045201
                                                                                                                                                                                          MOV
                               002030
                                                                                              002374
                                                                                                                            000010
                                                                                                                                                                                          MOV
                                                                                                                                                                                                                          STUHL, CBLK (R1)
                 480
                              002036
002042
                                                              005067
                                                                                              002376
                                                                                                                                                                                          CLR
                                                                                                                                                                                                                          UHLNXT
                 481
                                                                                                                                                                                                                          BUFIO
                                                                                                                                                                                                                          LIGET
                 482 - 002046
                                                                                                                                                                                          CALL
                 483
                                                                                                                                                                                                                                                                                                                      :VALID:UHL SUBFILE:HEADER?:
:BRANCH:IF SO:
:SET:RETURN:CODE:TO:FAILURE:
:EXIT:SUBROUTINE:
                               002052
                                                                                                                                                                                          CMP
                                                              026767
                                                                                                                                                                                                                          UHLHDR & UDOC
                484
                                                                                             002430
                                                                                                                            002406
                 485
                               002060
                                                               001402
                                                                                                                                                                                          BEQ
                                                                                                                                                                                                                          10$
                               002062
                 486
                                                              000261
                                                                                                                                                                                          SEC
                 487
                                002064
                                                               000404
                                                                                                                                                                                                                          ULHITX.
                 488
                               002066
                                                                                                                                                            10$:
                 489
                               002066
                                                              016767
                                                                                              002400
                                                                                                                            002342
                                                                                                                                                                                          MOV
                                                                                                                                                                                                                          UDOC+4,UHLCHT
                                                                                                                                                                                                                                                                                                                      :PICK-UP-NUMBER-OF-UHL-ENTRIES
                 49A
                               992974
                                                                                                                                                            285:
                 491
                                002074
                                                               000241
                                                                                                                                                                                          CLC
                                                                                                                                                                                                                                                                                                                      :SET-RETURN-CODE-TO-SUCCESS
                 492
                                002076
                                                                                                                                                            ULNITX:
                               002076
                                                              000207
                                                                                                                                                                                          RETURN
```

HRLMRG- MACRO M1110 27+MAR+80 13:29 PAGE+24 GET-NEXT-HRL-ENTRY-ROUTINE-(HGET) Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

495 496 002100				HGET:	.SBTTL - GET - NEXT - HRL - ENTRY - ROUT INE - (HGET)			
497 002100				HGE II	SAVE			
498 002100				10\$:				
		002342			MOV.	HRLNXT,R4 15\$ HRLCHT 13\$ EODFLG,@R4 12\$ EOHRL #EOFDOC.HDOC	CHECK NEXT HRL ENTRY ADDRESS	
	001425				BEQ.	15\$	IF NOT SET & GET HRL BUFFER T	
	305767	002340			TST-	HRLCHT:	ANY SPACE LEFT IN BUFFER?	
	303412. 336714	999774			BLE.	13\$	BRANCH IF NOT	
	100006	002374			BIT.	EODFLG.@R4	:TEST FOR EOD OR EOB SENTINEL	
	005267	002306			BPL: INC:	125	:BRANCH IF NOT EOD SENTINEL.	
			002342		MOV.	#EUEDUC ADUC	:SET END OF INPUT HRL FLAG	
	300443				BR	HGETY.	;POINT.TO.DUMMY.EOF.DOCUMENT.ID. ;EXIT.SUBROUTINE.	
508 002136				12\$:		nac m	EVII-20BKOOTINE.	
509 002136					BOFF.	20\$;BRANCH-IF NOT-EOB-SENTINEL-	
510 002140	210701			13\$:				
511 002140 0 512-002144	012701	004544			MOV.	#IOCB2.R1 RELBUF BSTADR,R2. B:HBLK(R2)	;HRL·INPUT IOCB·	
	016702·	000050			CALL	RELBUF	RELEASE THE INPUT BUFFER	
	305262				MOV:	BSTADR, R2.	RELEASE THE INPUT BUFFER GET BATCH STATUS TABLE RESTORE THIS BUFFER TO POOL	
515 002160		000120		15\$:	IIIC.	D: HDLK (RZ)	RESTORE THIS BUFFER TO POOL	
516 002160					CALL:	GETBHF:	*CET.NEVT.HDL DUCCED	
	316167	000014			MOV.	CBUF(R1), HRLHXT	GET NEXT HRL BUFFER SET HRLNXT TO START OF BUFFER INITIALIZE REMAINING BUFFER SPACE	
518 002172· 6		004000	002252		MOV.	#M.BUFB.HRLCHT	INITIALIZE REMAINING BUFFER SPACE	
520 002202	300737			20#-	BR	10\$;RETEST:HRUNXT: -	
521 002202 0	310403			20\$:	MOV.	D 4 D 3	7 1	
		000006			ADD.	R4.R3 #6.R3 (R3)+.QCOUNT	COPY POINTER TO HRL ENTRY	
	112367	002240			MOUD	40'K3	K3 -> QUERY-CUUNT-FAR DARAMENT.	
	066703	002234			ADD:	OCOUNT, 83	SAVE QUERY COUNT - POINT R3 PAST IT SKIP OVER QUERY ID BYTES	
	005203				INC.	R3	ADJUST FOR POSSIBLE PAD BYTE.	
526 002222 e		000001			BIC.	#1.R3	ALIGNON WORD BOUNDARY	
		002244			MOV.	R4,HDOC	:LOCATE · START · OF · ENTRY ·	
520·002232· 0	110367 160403	002210			MOV.	CCOUNT, R3 R3 #1.R3 R4.HDOC R3.HRLNXT R4.R3 R3.HRLCNT	SET-LOCATION-OF-NEXT-HRL-FNTRY.	
		002206			SUB.	K4,R3	CALCULATE BYTE-SIZE OF ENTRY.	
531 002244	.00501	002200		HGETX:	208	K3.HRLUNI.	:SUBTRACT-IT-FROM-REMAINING-BUFFER-SPACE	
532-002244				HUL IV	RESTOR.			
533 002244 0	000207				RETURN.			

HRLMRG- MC 0-M1110 27+MAR+80 13:29 PAGE-25 GET-NEXT- CIA-RDP85-00514R000100030001-3

535 SBTTL··GET·NEXT·UHL·ENTRY·ROUTINE·(UGET) 536 002246 UGET:	.SBTTL··GET·NEXT·UHL·ENTRY·ROUTINE·(UGET)			
SAVE R2.R3.R4 SAVE R2.R3.R4 SAVE R3.R4 SAVE SAVE R3.R4 SAVE SAVE R3.R4 SAVE S	R SOURCE WORK			
543 GET.NEW.UHL.BUFFER.				
544 002274 10\$: 545 002274 012701 004520' MOV #IOCB1.R1 ;LOAD-IOCB OF UHL-FILE 546 002300 CALL GETBUF ;GET-NEXT-INPUT-BUFFER 547 002304 016167 000014 002126 MOV CBUF(R1),UHLNXT ;INITIALIZE SOURCE WOR;				
548 002312 012767 002000 002124 MOV #N.BUFW.UHLUD :INITIALIZE.SIZE.OF.BUF	FFER.			
549 ; SET-UP-UHL-ENTRY-TRANSFER- 551 002320 20\$:				
552.002320 016702.002114 MOV. UHLNXT.R2. :SOURCE.ADDRESS. 553.002324 016704.002132 MOV. DCNT.R4. ;NUMBER.OF WORDS.TO.BE. 554.002330 026704.002110 CMP. UHLWD.R4. ;REMAINING BUFFER.WORD. 555.002334 002003 BGE. 25\$;BRANCH.IF YES.				
	AINDER-OF-INPUT-BUFFER- •			
559 002344 160467 002112 SUB- R4.DCNT- ;COMPUTE-SIZE-OF-NEXT-[560 002350 160467 002070 SUB- R4.UHLWD- ;COMPUTE-REMAINING-BUFF 561 002354 060467 002060 ADD- R4.UHLNXT- ;UPDATE-BUFFER-POINTER 562-002360 060467 002054 ADD- R4.UHLNXT- ;BYTE-OFFSET- 563-002364 302364 30836-	FER WORD COUNT			
564 002364 012223 MOV· (R2)+,(R3)+ ;TRANSFER.A.WORD.OF.DO(565 002366 077402· SOB· R4,30\$;NEXT.WORD 566 002370 35\$:	CUMENT: ID, TO The			
567 002370 005767 002066 TST. DCNT :HAS.ENTIRE.DOCUMENT [] 568 002374 001405 BEQ. 40% ;IF.SO, EXIT. 569 002376 012701 004520' MOV. *IOCBI.R! :IF.NOT, GET.IOCB.OF TI 570 002402. CALL. RELBUF. :RELEASE.PREVIOUS.INPU	HE-UHL SUBFILE			
571 002400 000732· BR 10\$;GET.NEW.UHL.BLOCK. 572-002410 40\$: 573 002410 005367 002022 DEC: UHLCNT: ;COUNT.OF.REMAINING.DO	CS IN THIS UHL			
574 002414 RESTOR: R2,R3,R4 575 002422 000207 RETURN:				

```
HRLMRG- MACRO: M1110 27-MAR-80 13:29 PAGE: 26 OUTPUT: AN: HRL: ENTRY: SUBROUTINE (HPApproved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
                                                                                             .SBTTL - OUTPUT AN HRL ENTRY SUBROUTINE (HPUT)
        578
                                                                                            THIS SUBROUTINE MOVES AN HRL ENTRY TO AN OUTPUT BUFFER AND ASSIGNS THE BUFFERS TO BE WRITTEN AS THEY FILL UP; (R2) = THE ADDRESS OF THE HRL ENTRY TO BE WRITTEN; (R3) = THE SIZE (IN WORDS) OF THE HRL ENTRY IF ROTE OF R3 THE SIZE (IN WORDS) OF THE HRL ENTRY THE SIZE (IN WORDS) OF THE HRL ENTRY THE ENTRY IF (R3) = 0, THE CONTENTS OF R2 ARE TAKEN IMMEDIATELY AS THE ENTRY TO BE WRITTEN
        579
        589
        581
        582
        583
        584
        585
                                                                                                                                                         ENOUGH SPACE LEFT IN BUFFER?

RRANCH IF DEFINITELY NOT.

MAYBE NOT

CHECK SIZE OF HRL ENTRY

BRANCH IF (R2) IS ADDRESS

IMMEDIATE ENTRY IN R2

ADJUST BUFFER POINTER

ADJUST SPACE LEFT IN BUFFER

IMMEDIATE TRANSFER?

IF NOT EXACTLY ENOUGH SPACE LEFT

CHANGE TYPE OF MOVE

FROM IMMEDIATE TRANSFER

TO INDIRECT TRANSFER

REST BUFFER SPACE LEFT
        586
               882424
                                                                              HPUT:
        587
                002424
                               020367
                                              002026
                                                                                             CMP
                                                                                                            R3.SCOUNT
                               003023
001412
        588 002430
                                                                                             BGT
               002432
                                                                                             BED
                                                                                                             10$
        590 002434
                                005703
               002436
        591
                               003043
                                                                                             BGT
                                                                                                             30$
                                              002004
        592 - 002440
                               010277
                                                                                                            R2,@HRLOUT
                                                                                             MOV
               002444
        593
                               062767
                                                              001776
                                              000002
                                                                                             \mathsf{ADD}
                                                                                                             #2,HRLOUT
              002452
002456
        594
                                005367
                                               002000
                                                                                             DEC
                                                                                                            SCOUNT:
        595
                               000443
                                                                                             BR
                                                                                                             40$
        596
597
               002460
002460
                                                                              10$:
                               005703
                                                                                             TST
        598
               002462
                                003031
                                                                                            BGT
                                                                                                             30$
              002464
002466
        599
                               005203
                                                                                             INC
        600
                               010267
                                                                                                            R2, UHLSAV
                                                                                             MOV
        601
               002472
                               012702
                                               004442
                                                                                             MOV
                                                                                                            #UHLSAV,R2
HPUT
        602
               002476
002500
                               000752
                                                                                             BR
                                                                             2015:
                                                                                                                                                          SET END OF BUFFER SENTINEL
SET UP FOR HRL WRITE
OUTPUT CURRENT BUFFER
GET BATCH STATUS TABLE
REDUCE AVAILABLE HRL FILE BLOCK COUNT
GET.NEW BUFFER
SET BUFFER POINTER
        604 002500
605 002506
                               016777
                                               992912
                                                             001742
                                                                                             MOV
                                                                                                            EOBFLG, @HRLOUT
                               012701
                                              004570
                                                                                             MOV
                                                                                                             #IOCB3,R1
        606 002512
607 002516
                                                                                             CALL
                                                                                                            RELBUF
                               016705
                                               001702
                                                                                                            BSTADR, R5
                                                                                             MOV.
        608 002522
609 002526
                               005365
                                              000120
                                                                                             DEC
                                                                                                            B.HBLK(R5)
                                                                                             CALL
                                                                                                            GETBUF
        610 002532
611 002540
                               016167
                                               000014
                                                             001710
                                                                                                            CBUF (R1), HRLOUT-
                                                                                             MOV
        611 002540
612 002546
                              012767
                                              002000
                                                             001710
                                                                                            MOV
                                                                                                            #M.BUFW.SCOUNT
                                                                                                                                                           SET SPACE LEFT IN BUFFER
                                                                             30$:
        613 002546
614 002552
615 002556
                                160367
                                               001704
                                                                                             SUB
                                                                                                            R3,SCOUNT
HRLOUT,R4
                                                                                                                                                          ;ADJUST·SPACE·LEFT·IN·BUFFER·
;SET·DESTINATION·ADDRESS·
                               016704
                                              001672
                                                                                             MOV
                                                                             35$:
        616 002556
                               012224
                                                                                             MOV
                                                                                                             (R2) + **, (R4) + **
                                                                                                                                                          :MOVE WORD OF ENTRY/AUTOINCREMENT
:NEXT WORD OF ENTRY
:ADJUST BUFFER POINTER
       617
618
               002560
002562
                               077302
                                                                                             SOB
                                                                                                            R3.35s
                                              001662
                              010467
                                                                                             MOV
                                                                                                            R4.HRLOUT
       619
620
              002566
002566
                                                                              40$:
                                                                                             RESTOR
        621 002566
                              000207
                                                                                             RETURN
```

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HRLMRG- M 0.M1110 27-MAR-80 13:29 PAGE 27
BUFFER CO OL ROUTINES Approved For
                                                        Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
      623
624
                                                                                 .SBTTL BUFFER CONTROL ROUTINES
                                                                                \begin{array}{lll} {\sf GET/RELEASE:BUFFER:} & - \\ {\sf THESE:SUBROUTINES:ARE:REENTRANT:AND:REQUIRE:THAT:R1} & -> & {\sf DESIRED} & {\sf IOCB:} \\ \end{array} 
       626
      627
628 002570
629 002570
                                                                   GETBUF:
            002570
002572
                                                                                SAVE
       630
                           116182
                                                                                                                                     #GET OFFSET TO INTENDED BUFFER
#IS MEXTG BUFFER ASSIGNABLE YET
#BRANCH IF IT IS
#HAS I/O BEEN STARTED ON THIS IOCB? """
#IF IT HAS WE ARE IZO BOUND - WAIT
#IF NOT INPUT BUFFERS NEED TO BE PRIMED
                                       000016
                                                                                MOVB
                                                                                             NXTG(R1).R2
      631
632
            002576
002604
                           032762
                                        000001
                                                     005114
                                                                                BIT-
                                                                                              #BUFLOK,BDB(R2)
                                                                                             20$
      633 002606
634 002612
                           105761
                                       000021
                                                                                             HXTR+1(R1)
                                                                                TSTR -
                          001002
      635 002614
636 002620
637 002620
638 002636
                                                                                CALL.
                                                                                             BUF IO
                                                                   10$:
                                                                                WAIT$
                                                                                             FDBAD(R1), EVNT(R1)
                                                                                                                                     :WAIT-FOR-I/O-COMPLETION
                                                                   20$:
      639 002636
640 002644
                           016261
                                       005114' 000014
                                                                                MOV
                                                                                             BDB(R2),CBUF(R1)
BUFXIT
                                                                                                                                     :LOAD ADDRESS OF ASSIGNED BUFFER
             002644
                          000423
      641
642
             002646
                                                                  RELBUF:
      643 002646
644 002650
645 002654
646 002662
                                                                                                                                                                                  --
                                                                                SAVE
                           116192
                                       000016
                                                                               MOVB
BIS
                                                                                                                                     :GET-OFFSET-TO-INTENDED BUFFER
:MARK-BUFFER-UNASSIGNABLE:
:START-UP-I/O-IF-POSSIBLE:
:LAST-BUFFER-FOR-THIS-FILE?
:RECYCLE: IF-YES:
:SELECT-NEXT-BUFFER-TO-BE-ASSIGNED-
                                                                                             NXTG(R1),R2
                           052762
                                        000001
                                                     005114
                                                                                             #BUFLOK,BDB(R2)
                                                                                             BUFIO
MXTG(R1),LBDB(R1)
                                                                                CALL
      647
648
            002666
002674
                           126161
                                        000016
                                                     000023
                                                                                CMPB
                                                                                             15$
#2,NXTG(R1)
                          002004
                                                                               BGE
ADD
            002676
002676
002704
002706
      649
650
651
                          062761
000403
                                       000002
                                                     000016
                                                                                             BUFXIT
      652
                           116161
                                       000022
                                                     000016
                                                                               MOVB
                                                                                             IBDB(R1),HXTG(R1)
                                                                                                                                     :SELECT FIRST BUFFER
      653
            002714
002714
                                                                   BUFXIT:
                                                                               RESTOR: R2
      655
             002716
                          000207
                                                                               RETURN
```

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658
                                                                   ASYNCHRONOUS EXIT ROUTINE.
     659
660
           002720
    668 5
661 002726
662 002724
663 002726
392732
                                                        ASTX:
                      010167
                                 001534
                                                                              R1.R1SAV
(SP).R1
NXTR(R1).R1
                                                                                                                :SAVE - R1
                                                                                                               011601
                                 000020
                      116101
                                                                   MOVB
     664 002732
665 002740
                      042761
                                 000001
                                            0051144
                                                                              #BUFLOK,BDB(R1)
(SP)+,R1
                                                                   BIC-
                      012601
     666
667
           002742
002746
                                 000010
                                                                              CBLK(R1)
HXTR+1(R1)
                                                                   THO
                      185861
                                 888821
     668 002752
669 002760
                      126161
                                                                   CMPB
                                                                              HXTR(R1),LBDB(R1)
     669 002760
670 002762
671 002770
672-002772
673 002772
674
675
                      062761
                                 000002
                                            000020
                                                                              #2, HXTR(R1)
                                                                   ADD -
                      000403
                                                        10$:
                      116161
                                 000022
                                            000020
                                                                  MOVB:
                                                                              IBDB(R1).NXTR(R1)
                                                                                                               ; NEXT · I/O · BUFFER · IS · FIRST ·
                                                                   START I/O ON NEXT BUFFER
                                                                                                                          676
677
           003000
           003000
                                                                  SAVE
MOV
SAVE
                                                                              FJBHAD(R1).R0
F.BKDS+2(R0).F.BKST(R0) ;PRESERVE-ASTX-ROUTINE-REENTRANCY-F.BK/VB+2(R0).F.EFN(R0)
     678
           003002
                      016100 000004
     679
680
           003006
           003016
                                                                   SAVE
     681
           003026
                                                                             F.BKVB+2(R0).F.EFN(R0)
F.BKVB+2(R0).F.BKST(R0)
                                                                   CALL
     682
           003032
          003042
003052
     683
                                                                   RESTOR
     684
                                                                  RESTOR
MOV-
           003054
                      016701
                                                                              RISAV, RI
     686
           003060
                                                                   ASTX$S.
     687
     688
     689
                                                                   CALCULATE LAST PHYSICAL BLOCK OF FILE
     690
          003066
003066
     691
                                                       GTBLK:
                      016100
                                 000004
                                                                                                               :GET-FILE'S-FDB-
:GET-LAST-ALLOCATED-BLOCK-
:CONVERT-TO-LOGICAL-BLOCKS-
:BY-DIVIDING-BY-4
                                                                  MOV
                                                                              FDBAD(R1),R0
F.HIBK+2(R0),R3
     693
          003072
                      016003
                                                                  MOV.
     694
           003076
                      006203
                                                                  ASR
          003100
003102
                      006203
000207
     695
                                                                   ASR
                                                                  RETURN -
     697
     698
     699
                                                                  BUFFER-CONTROL-ROUTINE SYMBOLIC-VARIABLES-
     700
     791
                      000001
                                                        BUFLOK
                                                                                                               #BUFFER-LOCKED, CANNOT-BE-ASSIGNED:
#READ-OPERATIONS-ON-THIS-IOCB:
#WRITE-OPERATIONS-ON-THIS-IOCB:
#FILE-WRAP AROUND-IN EFFECT:
#LAST-LOGICAL-I/O-BLOCK-ENCOUNTERED:
#IOCB-HAS-BEEN-INITIALIZED:
                                                                              BIT0
                      000004
                                                       BUFRD -
                                                                             BIT2
BIT3
     703
                      000010
                                                       BUFWR .
BUFRAP
     704
705
                                                                              BIT4
                                                       BUFEOF .
                      000040
     706
                                                                              BIT7
```

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O·Mill0 27-
OL·ROUTINES
                               27-MAR-80 13:29 PAGE-29
BUFFER CO
                                                   Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     788
                                                                          PERFORM: I/O: ON: NEXT: AVAILABLE: BUFFER
     709
     710
711
                                                                          R1 -> BUFFER DEFINITION BLOCK
     712
713
           . 003104
                                                             BUFIO:
            003104
                                                                          SAVE
                                                                                      RØ.R2.R3.R4
#BUFOPN.ATTR(R1)
                                                                                                                           #HAS TOCH BEEN INITIALIZED YET?
#IF SO, SET UP I/O OPERATION
#HAS LOGICAL START OF FILE BEEN SPECIFIED?
#BRANCH IF IT HAS
#SET START AT BEGINNING OF FILE
     714
            003114
                        132761
                                     000200
                                                 000007
                                                                          BITB
      715
            003122
                                                                          BON
                                                                                      BUFQIO
     716
717
718
           003124
                        005761
                                     000010
                                                                                      CBLK (R1)
            003130
                        003003
                                                                          BGT
                                                                                                                                                                                                  003132
                        012761
                                     000001
                                                 000010
                                                                          MOV
                                                                                      #1.CBLK(R1)
      719
            003140
                                                             1回事:
                                                                                                                           :HAS.LOGICAL.END.BEEN.SPECIFIED?:
:BRANCH.IF IT.HAS:
:HAS.WRAP.AROUND.BEEN.SPECIFIED?:
:BRANCH.IF IT.HAS:
:CALCULATE LOGICAL.BLOCK.SIZE.OF.FILE
:SET.UP.LOGICAL.BLOCK.TO.STOP.IZO.
      720 003140
                        005761
                                     000012
                                                                          TST
                                                                                      LBLK(R1)
            003144
                        003010
                                                                          BGT
                                                                                      28$
            003146
                        132761
                                     000020
                                                 000007
                                                                          BITB
                                                                                      #BUFRAP, ATTR(R1)
           003154
003156
                                                                          BON.
                                                                                      20$
GTBLK
      724
                                                                          CALL
     725
726
           003162
                        010361
                                    000012
                                                                          MOV
                                                                                      R3,LBLK(R1)
           003166
003166
                                                             20$:
                        132761
                                    000004
                                                 000007
                                                                                      ⇔BUFRD,ATTR(R1)
                                                                                                                           :IS-THIS-IOCB-FOR-READ-OPERATIONS?
:BRANCH-IF NOT-
:GET-OFFSET-TO-FIRST BUFFER-
                                                                         BITE
     728 - 003174
                                                                         BOFF
                                                                                      30$
     729
           003176
                        116102
                                    000022
                                                                         MOVB
                                                                                      IBDB(R1),R2
      73A
           003202
                                                             25$:
      731
           003202
                        052762
                                     000001
                                                005114
                                                                                                                           :MARK-BUFFER-UNASSIGNABLE
:STEP-TO-NEXT-BUFFER
:LAST-BUFFER-BEEN-MARKED?
                                                                         BIS
                                                                                      #BUFLOK,BDB(R2)
     732
           -00321A
                        062702
                                    000002
                                                                         ADD
                                                                                      #2,R2
     733
           003214
                        120261
                                    000023
                                                                         CMPB
                                                                                      R2,LBDB(R1)
     734
           -003220
                        003770
                                                                         BLE
                                                                                                                           ; IF NOT, GO TO MARK IT
     735
736
           003222
003222
                                                             30$:
                                                                         FDBK$R
                                                                                      FDBAD(R1),,,,,,#ASTX
                                                                                                                           ;DEFINE AST EXIT:
;SET 1008 INITIALIZED FLAG
           003234
                        152761
                                    000200
                                                000007
                                                                         BISB:
                                                                                      #BUFOPN, ATTR(R1)
     738
     739
                                                                         SET-UP-I/O-OPERATION-
                                                                                                                                                                                  15.12
     740
     741
           003242
003242
                                                             BUFQIO:
     742
                                                                                                                          #HAS.FILE'S.LOGICAL.EOF.ALREADY.BEEN.REACHED?:
#IF.SO, EXIT.
#IS.1/O.ALREADY.IN.PROGRESS.ON THIS.IOCB?:
#EXIT.IF.SO.
#GET.OFFSET.TO.NEXT.BUFFER.FOR I/O.
#IS.BUFFER AVAILABLE FOR.I/O?:
#BRANCH.IF.NOT.
#GET.BUFFER.ADDRESS:
#CLEAR.LOCK.FLAG.
#DEFINE.BUFFER.IN.THE.FDB.
                        132761
                                    000040
                                                000007
                                                                         BITB
                                                                                      #BUFEOF,ATTR(R1)
           003250
003252
     743
                                                                         BON -
                                                                                     BUFIOX:
NXTR+1(R1)
     744
                        105761
                                    000021
           003256
003260
     745
                        001152
                                                                         RNF
                                                                                      BUF INX:
     746
                                    аааа...а
                       016102
                                                                                      HXTR(R1).R2
           003264
003272
                        032762
     747
                                    000001
                                                005114
                                                                         BIT
                                                                                      #BUFLOK, BDB (R2)
                                                                         BOFF
           003274
003300
     749
                       016203
                                    005114
                                                                         MOV
                                                                                      BDB(R2).R3
     750
                       842793
                                    000001
                                                                                      #BUFLOK,R3
     751
           993394
                                                                         FDBKsR
                                                                                     FDBAD(R1),R3
     752 - 003314
                                                                                                                                                                                               PIP 1
                                                                                                                           DEFINE EVENT FLAG AND TOST BLOCK
```

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HRLMRG- MAURO: M1110 27+MAR-80 13:29 PAGE: 30 BUFFER: CONTROL: ROUTINES: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     254
                                                                 DO THE APPROPRIATE 1/O OPERATION
     755
756
           003326
                                                      105:
      757
           003326
                     016103
                                 000012
                                                                                                                                                         स्य प्राप्ताः श्रीक
                                                                            LBLK(R1),R3
                                                                                                            ;GET-LAST-LOGICAL-BLOCK
     758
759
          003332
                      105261
                                000017
                                                                 INCB
                                                                            HXTG+1(R1)
                                                                                                            :SET-LOGICAL-BLOCK-INDICATOR.
          003336
                                                      20$:
     760
761
          003336
003342
                      026103
                                 000010
                                                                 CMP
                                                                                                            CBLK(R1),R3
                     002427
                                                                            50$
     762
763
          003344
                                                                                                                                                                  BEQ
                                                                            40$
     764 003346
                                                                                                            :LAST-HIGH - FILE-WRAP: AROUND?
                      132761
                                000020
                                          000007
                                                                 BITE
                                                                            #BUFRAP,ATTR(R1)
          003354
     765
                                                                           BUFIOX
                                                                                                            #HAVE ALREADY REACHED END OF FILE LOGICAL BLOCK INDICATOR SET?
     766
          003356
003362
                      105261
                                 000017
                                                                 TSTB
                                                                           HXTG+1(R1)
                     001004
                                                                BNE
MOV
                                                                            30$
                                                                                                            :BRANCH IF YES:
:WRAP AROUND TO START OF FILE
                                                                            #1,CBLK(R1)
     768
          003364
                     012761
                                000001
                                           000010
           003372
                     000755
                                                                 BR
                                                                                                            RETEST FOR LOGICAL EOF
          003374
     770
          003374
                                                                                                           #CALCULATE LAST PHYSICAL BLOCK IN FILE #RESET LOGICAL BLOCK INDICATOR #RETEST FOR PHYSICAL END OF FILE
                                                                 CALL
          003400
003404
     772
                      105061
                                000017
                                                                 CLRB
                                                                           HXTG+1(R1)
                     000754
                                                                BR
                                                                            20$
     774
          003406
                                                      40$:
     775
776
777
778
          003406
                      105761
                                000017
                                                                TSTB-
                                                                                                           :WHICH END OF FILE IS BEING TESTED? :
:BRANCH IF PHYSICAL EOF :
:SET LOGICAL EOF REACHED: INDICATOR
                                                                           NXTG+1(R1)
                                                                                                                                                              一种一个。
          003412
                     001405
                                                                           60$
          003414
003422
                     152761
                                000040 000007
                                                                BISB
                                                                           #BUFEOF,ATTR(R1)
                                                      50$:
     779
780
          003422
                      105061
                                                                CLRB -
                                                                           NXTG+1(R1)
                                                                                                           RESET LOGICAL BLOCK INDICATOR
     781
782
                                                                CALCULATE · CURRENT · VIRTUAL · BLOCK · FROM · CBLK · FIELD
     783
          003426
                                                      50$:
          003426
                     016103
005303
     784
                                000010
                                                                           CBLK(R1).R3
                                                                                                            :GET CURRENT LOGICAL BLOCK
     785
          003432
                                                                DEC:
                                                                           R3
                     006303
     786
          003434
          003436
                     006303
                                                                ASI.
                                                                           R3
     788
          003440
                     005207
                                                                 INC
                                                                                                           :VB:= (CBLK-1)*4+1
:GET:FDB:ADDRESS
:INITIALIZE VIRTUAL BLOCK-ADDRESS IN FDB
:SET:I/O:IN-PROGRESS
:READ-SPECIFIED?
           003442
                     016100
                                000004
                                                                MOM
                                                                           FDBAD(R1),R0
R3,F.BKVB+2(R0)
     790 003446
                     010360
                                000066
                                                                MÖV
          003452
                     105261
                                000021
                                                                 INCB
                                                                           HXTR+1(R1)
     792 - 003456
                     132761
                                000004
                                          000007
                                                                           #BUFRD, ATTR(R1)
                                                                BITB
         003464
                                                                                                           #READ: SPECIFIED: :
#BRANCH: IF NOT:
#PERFORM: THE: READ:
#CHECK: SUCCESS
                                                                BOEF
     794 003466
                                                                READ$
          003472
     795
                     000406
                                                                BR
     796 003474
                                                      70$:
     797 003474
798 003502
                     132761
                                000010 000007
                                                                                                           :WAS WRITE SPECIFIED?:
:BRANCH IF NOT:
:PERFORM THE WRITE
                                                                BITB
                                                                           #BUFWR,ATTR(R1)
                                                                           BUFIOX:
         003504
003510
     299
                                                                WRITE$
     800
                                                     80$:
     801 003510
                     103035
                                                                BCC.
                                                                           BUETOX:
                                                                                                           :EXIT IF NO ERROR
```

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严密的数,如于积极。 1927年

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HRLMRG- MC 10 M1110 27-MAR-80 13:29 PAGE-31 BUFFER-CO OL-ROUTINES Approved For
                                                         Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
       803
                                                                                 ERROR-EXIT-ON-FCS-DIRECTIVE
      804
805
             003512
                                                                    ÉRRX:
      806 003512
807 003520
                           126027
001006
                                                                                                                                       ;WAS-THIS-READ-PAST-LAST-BLOCK
;IF-NOT, A TRUE-ERROR-
;SET-END-OF-FILE-FLAG-
;RESET-L/O IN-PROGRESS-FLAG-
;EXIT-ROUTINE-
                                        000052
                                                      000000G
                                                                                 CMPB-
                                                                                               F.ERR(R0), #IE.EOF
                                                                                 BNF -
                                                                                               10$
#BUFEOF,ATTR(R1)
      808 003522
809 003530
810 003534
811 003536
                           152761
105061
                                        000040
000021
                                                      000007
                                                                                 BISB
                                                                                               NXTR+1(R1)
BUFIOX
                           000423
                                                                    10$:
      811 003536
812 003536
813 003542
814 003550
815 003556
816 003576
817
                                        000636
000052
000377
                           010167
                                                                                  MOV.
                                                                                               R1.PAR1
                                                                                 MOVB F.ERR(R0), PAR2
BISB #255., PAR2+1
MOUT$S #MSG6.#MSGPAR
                           116067
152767
                                                      000632
                                                                                 EXIT$S.
                                                                    ;
;
                                                                                  RETURN POINT FOR BUFIO SUBROUTINE
       819
      820 003604
821 003604
                                                                    BUF IOX∶
                                                                                  RESTOR R0,R2,R3,R4
       822-003614
                          000207
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HRLMRG- MACRO-M1110 27-MAR-80 13:29 PAGE-32-
ERROR-HANDLING-ROUTINE Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
    824
825
                                                            .SBTTL - ERROR-HANDLING ROUTINE .NLIST- BEX-
    826
827
                                                       DIRECTIVE - ERROR
     828
         003616
003622
003626
                   011667
     829
                              000556
                                                  DIRERR: MOV-
                                                                      (SP),PAR1
     830
                    116700
                              000000G
                                                                      $DSW.R0
R0.PAR2
                                                            MOVB.
     831
                    010067
                                                            MOV:
MOUT#S
                              000550
         003632
                                                                      #MSGD,#PAR1
                                                                                                                    ÷
         003652
                    000207
                                                            RETURN
     834
     835
         003654
                                                            .PSECT
     836
837
838
839
                                                       STRING DESCRIPTORS
          003654
                    000044
                                                  MSG0:
                                                             LIORD.
         003656
003660
     840
                    003714
                                                            JUNED.
                                                                      LNA
     841
                    000034
                                                  MSG1:
                                                                      LH1E-LH1
     842
843
         003662
003664
                                                            . WORD
                                                                      LN1
                    000041
                                                  MSG2:
                                                            .WORD
         003666
003670
003672
003674
003676
     844
                    0040141
                                                            JUNED.
                                                                     LN2
     845
                    иииияя.
                                                  MSG3:
                                                             WORD
                                                                      LN3E-LN3
     846
                                                            .WORD
                                                                      LN3
     847
                    000062
                                                  MSG4:
                                                             .WORD
                                                                      LN4E-LN4
                    0041257
000034
     848
                                                            . WORD
                                                                     LN4
    849
850
                                                  MSG5:
                                                            .WORD
.WORD
                                                                     LHSE-LHS
         003702
003704
                    004207
     851
                    000062
                                                  MSG6:
                                                            . WORD
                                                                      LH6E-LH6
    852 003706
853 003710
                   004243°
000040
                                                            .WORD
                                                                     LN6
                                                  MSGD:
                                                            .WORD
                                                                      LHDE-LHD
     854
         003712
                    004325
                                                            .WORD
                                                                     LND
    856
                                                      FORMAT STRINGS
     857
         003714
003760
003760
    858
                        110
                                  122
                                           114
                                                  LH0:
                                                            .ASCIZ: /HRLMRG:PROGRAM:EXIT: - ACK:CODE: =: %D/
                                                  LN0E:
    860
                        110
                                                            .ASCIZ: /HRL MERGE:FILE:OPEN:FAILURE/
     861
         004014
                                                  INIE:
    862
         004014
                        125
                                  110
                                            114
                                                            .ASCIZ. /UHL OPEN.FAILURE, QUERY ID. = . %1D/
         004055
                                                  LN2E:
                       111
    864
         004055
                                 116
                                                  LN3:
                                                            .ASCIZ: /INVALID:COMMAND:FROM:MSCHED, CODE =: %10/:
    865
         004125
                                                  LN3F:
    866
867
         884125
                        111
                                 116
                                            103
                                                            .ASCIZ: /INCONSISTENT:BATCH:IDS, OPEN:=:%iD, COMMAND =:%iD/
         004207
                                                  N4E:
    868
869
         884287
                       1\,1\,1
                                 116
                                                  _N5:
                                                            .ASCIZ- /INVALID-QUERY ID. QID-= %10/.
         004243
                                                  .NSE:
         604243
004325
    870
871
                       102
                                 125
                                            106
                                                            .ASCIZ. /BUFIO.FAILURE, IOCB.ADDRESS. = NO. ERROR COME/2: 80/
                                                   NEE:
    872
873
         004325
                       120
                                 103
                                           040
                                                            .ASCIZ. /PC.=.%10. DIRECTIVE.ERROR.=.%1D/
         004365
                                                  _NDE:
                                                            .EVEN
```

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HRLMRG- ME10-M1110 27-MAR-80 13:29 PAGE-33
DATA-STOR AND SYMBOLIC-VARIABLE Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                                                                                           .SBTTL - DATA STORAGE AND SYMBOLIC VARIABLES
           877
878
                       000000
                                                                                                                                           .PSECT.
                                                                                                                                                                  IOCBOF, ABS
                       ававава
                                                                                                                                                                                                                                        : I/O·STATUS·BLOCK·
:ADDRESS·OF·FDB·
:ADDRESS·OF·EVENT·FLAG·
                                                                                                                                           .BLKW
                       000004
                                                                                                                    FDBAD:
                                                                                                                                            .BLKW
           881
                       000006
                                                                                                                    EVNT:
BTTR:
                                                                                                                                                                                                                                       :ADDRESS-OF-EVENT-FLAG:
:TYPE-OF-I/O-
:TYPE-OF-I/O-
:CURRENT-LOGICAL-BLOCK:
:LAST-BLOCK-(IF-WRAP AROUND)
:ADDRESS-OF-BUFFER CURRENTLY-IN-USE-C
:BDB-OFFSET-OF-NEXT-ENTRY-FOR-ASSIGNMENT
:BDB-OFFSET-OF-NEXT-ENTRY-FOR-I/O-
:FILE:S-FIRST-BDB-INDEX.
:FILE:S-LAST-BDB-INDEX.
                      000007
                                                                                                                                            .BLKB
           883
                                                                                                                    CBLK:
LBLK:
                                                                                                                                            .BLKW
           884
                      000012
000014
                                                                                                                                            .BLKW
            885
                                                                                                                    CBUF:
                                                                                                                                            .BLKW
           886
887
                      000016
                                                                                                                    NXTG:
                                                                                                                                            .BLKЫ
                                                                                                                    MXTR:
                                                                                                                                            .BLKW
           888
                      000022
                                                                                                                    IBDB:
                                                                                                                                            .BLKB
           889
                                                                                                                    LBDB:
           890
                       004366
                                                                                                                                            .PSECT
            891
                      004366
004372
           892
                                                                                                                    ŔCVB:
                                                                                                                                            .BLKW
                                                                                                                                                                                                                                        :RECEIVE · COMMAND · BLOCK · :PROGRAM · ID · :COMMAND / ACK · CODE ·
           893
                                                                                                                    PGMID:
CMDX:
                                                                                                                                            .BLKB
           894 004373
895 004374
                                                                                                                                           .BLKB
                                                                                                                    BCHNO:
QRYID:
                                                                                                                                           .BLKW
                                                                                                                                                                                                                                        :BATCH-NUMBER:
:QUERY-ID-
           896
897
                       004376
                                                                                                                                            . BLKЫ
           898
                       004400
                                                                                                                    MSGPAR:
                                                                                                                                           .BLKW
                                                                                                                                                                  Ø
                                                                                                                                                                                                                                        :MSGOUT-PARMS/RCVB-BLOCK-PAD
                       004400
                                              000000
                                                                                                                   PAR1:
PAR2:
                                                                                                                                           .WORD
                                                                                                                                                                  0
           900
                       004402
004404
                                             000000
            90 i
                                                                                                                    PAR3:
                                                                                                                                            . MORD
                                                                                                                                                                  ē
7
           902
                      004406
                                                                                                                                                                                                                                      *BATCH STATUS TABLE ADDRESS *
*NUMBER OF UHL SUBFILE LOGICAL BLOCKS *
*LOGICAL BLOCK START OF UHL SUBFILE *
*FDSC ADDRESS OF QUERY SPOOL FILE *
*END OF HRL FLAG *
*REMAINING NUMBER OF UHL ENTRIES *
**UHL INPUT BUFFER POINTER *
*SPACE LEFT IN UHL BUFFER BUFFER *
**SPACE LEFT IN UHL BUFFER *
**OUTPUT HRL BUFFER POINTER *
**INPUT HRL BUFFER POINTER *
**INPUT HRL BUFFER SPACE *
**NUMBER OF OIDS IN HRL ENTRY *
**SPACE LEFT IN HRL OUTPUT BUFFER *
**ASTX SAVE AREA *
**PARTIAL DOC ID WORD COUNTER *
**HRL ABORT COMMAND FLAG *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD COUNTER *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD COUNTER *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD COUNTER *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
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***ASTX SAVE AREA *
***PARTIAL DOC ID WORD COUNTER *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD STATE *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD STATE *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***PARTIAL DOC ID WORD STATE *
***INPUT HRL BUFFER STATE *
***ASTX SAVE AREA *
***ASTX
            903
                       004424
                                              000000
                                                                                                                    BSTADR:
                                                                                                                                                                  ė
                                                                                                                                           . MORD
           984
                      004426
                                              ававав
                                                                                                                    NBUHL:
           905
                       004430
                                                                                                                    STUHL:
                                                                                                                                           .WORD
                                                                                                                                                                 0
           906
                       004432
                                              равара
                                                                                                                    FDUHL:
                                                                                                                                           .WORD
                       004434
                                              000000
                                                                                                                    FOHRI:
                                                                                                                                           . MORD
                                                                                                                                                                  0
0
           908
                     004436
                                              равава
                                                                                                                    UHLCHT:
           909
                       004440
                                                                                                                    UHLNXT:
                                                                                                                                           . WORD
                                                                                                                                                                  Й
           910
                                                                                                                   UHLSAV:
UHLWD:
                      004442
                                              папапа
                                                                                                                                           .WORD
                       004444
                                                                                                                                           .WORD
                                                                                                                                                                  0
           912
                      004446
                                              000000
                                                                                                                   HRLNXT:
                                                                                                                                           .WORD
                     004450
004452
           913
                                              000000
                                                                                                                    HRLOUT:
                                                                                                                                           .WORD
                                                                                                                                                                  0
           914
                                              000000
                                                                                                                    HRI CHT:
                                                                                                                                           .WORD
           915
916
                     004454
004456
                                              000000
                                                                                                                    QCOUNT:
                                                                                                                                           .WORD
                                                                                                                                                                  0
                                              000000
                                                                                                                    SCOUNT:
                                                                                                                                           .WORD
                                                                                                                                                                 0
           917
                     004460
004462
                                              000000
                                                                                                                    R1SAV:
                                                                                                                                          .WORD
           918
                                              000000
                                                                                                                                          .WORD
                                                                                                                    DONT:
                                                                                                                                                                  Ø
           919
920
                     004464
                                              000000
                                                                                                                    ABRTFL:
                                                                                                                                                                  õ
                      004466
004474
           921
                                                                                                                                           .BLKW
                                                                                                                                                                  3
                                                                                                                                                                                                                                      #UHL:ENTRY BUFFER: + SKELETON:HRL:WORD:
#SINGLE:QUERY:ID:
#INPUT:HRL ENTRY:POINTER:
#DUMMY:DOC ID:
           922
                                             000001
                                                                                                                                           .WORD
                                                                                                                                         .BLKW
           923
                     004476
                                                                                                                    HDOC:
                      004500
                                             000017
                                                                                                                   EOFDOC:
                                                                                                                                                                  15.
                     004502
                                                                                                                                           .WORD
           928-004506
929-004510
                                             052510
                                                                                                                   UHLHDR:
                                                                                                                                           .WORD
                                                                                                                                                                  "HU-
                                                                                                                                                                                                                                       :UHL · SUBFILE · HEADER · :HRL · FILE · HEADER · RECORD
                                                                                                                                           .WORD
                                             041461
                                                                                                                   HRLHDR:
                                                                                                                                                                  " 1 C
          930
                     004512
                                             000000
                                                                                                                                                                                                                                       :PAD-WORD:
:END-OF-DATA-SENTINEL:
:END-OF-BUFFER-SENTINEL
                                                                                                                                                                 ø
                     004514
                                                                                                                  EODFLG: .WORD .
EOBFLG: .WORD .
                                                                                                                                                                BIT15!BIT14
BIT14
                                             140000
                     004516
                                             040000
                                                                                                 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

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MACRO-M1110 27-MAR-80 13:29
FILE STRUCTURES
                                                              Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                                    .SBtTL. FILE STRUCTURES.
       935
       936
                                                                                    I/O GONTROL BLOCK - UHL FILE
       937
       938 004520
                                                                      IOCB1:
       939
             004520
                                                                                    .ВЦКШ
                                                                                                                                           ; IOST-BLOCK
       940
             004524
                           004614
                                                                                    . WORD
. BYTE
. BYTE
                                                                                                 FDB1
                                                                                                                                           :FDB ADDRESS
             004526
004527
       941
                                 001
                                                                                                                                            :EVENT FLAG 1
       942
                                 004
                                                                                                  BUFRD
                                                                                                                                           READ/NO WRAP AROUND CURRENT LOGICAL BLOCK
       943 004530
                                                                                    √BLKW
       944
             004532
                                                                                                                                           :CURRENT LOGICAL BLOCK:
:LAST LOGICAL BLOCK:
:ADDRESS OF BUFFER IN USE:
:INDEX TO INITIAL ASSIGN BDB:
:INITIALLY UNASSIGNBLE:
:INDEX TO INITIAL I/O BDB:
:INITIALLY UNASSIGNBLE:
:INDEX TO FILE'S FIRST BDB:
:INDEX TO FILE'S LAST BDB:
       945
             004534
                           000000
                                                                                    √WORD
       946
             004536
                                                                                    BYTE.
                                000
                                                                                                  BDB1-BDB
       947
             004537
                                 000
       948
             004540
                                 ааа
                                                                                     BYTE
                                                                                                 BDB1-BDB
       949 004541
                                 000
                                                                                    .BYTE
       950
             004542
                                 000
                                                                                                 BDB1-BDB
       951
             604543
                                 002
                                                                                    .BYTE
                                                                                                 BDB2-BDB
       952
      953
954
                                                                                    I/O.GONTROL.BLOCK - HRL.F'ILE.INPUT.
      955
956
             004544
                                                                     iocsz:
                                                                                                2.
FDB2
             004544
                                                                                    .BLKW
                                                                                                                                          :IOST BLOCK
:FDB ADDRESS
:EVENT FLAG 2
:READ WITH WRAP AROUND
:CURRENT LOGICAL BLOCK
:LAST LOGICAL BLOCK
:ADDRESS OF BUFFER IN USE 1
:INDEX TO INITIAL ASS BOW BDB
:INDEX TO THIT INC IT USB BB
:INDEX TO FILE S FIRST BDB
:INDEX TO FILE S FIRST BDB
                                                                                                                                             IOST-BLOCK
      957
             004550
                           004754*
                                                                                    .WORD
      958
             004552
                                002
             004553
                                024
                                                                                    BYTE
                                                                                                 BUFRD!BUFRAP
      968
             004554
                                                                                    .BLKW
             004556
                                                                                    .BLKW
      962
             004560
                           000000
                                                                                    .WORD
      963
964
             004562
                           000004
                                                                                    JUORD.
                                                                                                 BDB3-BDB
             004564
                                                                                                BDB3-BDB
BDB3-BDB
                           000004
                                                                                    .WORD
      965
966
967
968
             004566
                                                                                    .BYTE
             004567
                                006
                                                                                    BYTE
                                                                                                 BDB4-BDB
                                                                                    I/O.CONTROL.BLOCK.BLOCK.-
                                                                                                                                FIRL FILE OUTPUT
      969
970
             004570
                                                                      IOCB3:
      971
972
973
974
             004570
                                                                                    BLKM.
                                                                                                                                           : IOST-BLOCK
                                                                                                                                           : IOST: BLOCK:
:FDB: ADDRESS:
:EVENT: FLAG: 3
:WRITE: WITH: WRAP: AROUND:
:CURRENT: LOGICAL: BLOCK:
:LAST: LOGICAL: BLOCK:
:ADDRESS: OF: BUFFER: IN: USE:
:INDEX: TO: INITIAL: ASSIGN: BDB:
:INDEX: TO: INITIAL: ASSIGN: BDB:
:INDEX: TO: INITIAL: ASSIGN: BDB:
:INDEX: TO: FILE: SARIKST: BDB:
:INDEX: TO: FILE: SARIKST: BDB:
             004574
                           0047541
                                                                                    .WORD
                                                                                                 FDB2
             004576
004577
                                003
                                                                                    BYTE
                                939
                                                                                                 BUFWRIBUFRAP
      975
             004600
                                                                                    .BLKW
      976
             004602
                                                                                    .BLKW
      977
             004604
                                                                                    LIORN
      978
                                                                                                BDB5-BDB
BDB5-BDB
             004606
                           000010
                                                                                    .WORD
      979
            004610
                           000010
                                                                                    . MORD
      980 004612
                                010
                                                                                                 BDB5-BDB
      981 004613
                                                                                    .BYTE
                                                                                                 BDB6-BDB
                                                              Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
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HRLMRG- M 0-M1110 27-MAR-80 13:29 PAGE-35 FILE-STRU RES- Approved For
                                                              Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      983
984
985
986
987 004614
988 004754
989 004754
990 004754
                                                                                         FILE-DEFINITION-BLOCKS
                                                                                        UHL - FILE
                                                                          FDB1:
                                                                                        FDBDF$
                                                                                        FDRC$A FD.RWM
FDBK$A ,2*N.BUFW,,1,IOCB1
FDOP$A 1
       992
                                                                                        HRL · FILE
       993
       994 004754
995 005114
996 005114
997 005114
                                                                                        FDBDF$
FDRC$A· FD.RWM-
FDBK$A· ,2*N.BU
                                                                         ÉDB2∶
              005114
005114
005114
                                                                                        FDBK$A . 2*N.BUFW.,2,IOCB2-FDOP$A . 2
       998
999
              005114
                                                                                        FSRSZ$ 0
      1000
                                                                                        BUFFER - DEFINITION - BLOCK - ADDRESS - VECTOR
      1002
1003
             005114
005114
005116
005120
005122
                                                                         BDB:
BDB1:
BDB2:
BDB3:
BDB4:
BDB5:
BDB6:
      1004
1005
                             005130°
                                                                                         .WORD
                                                                                                       BUF 1
                                                                                                       BUF 1
BUF 2
BUF 3
BUF 4
BUF 5
BUF 6
                                                                                         .WORD
                             015130°
021130°
      1006
      1007
                                                                                         .WORD
      1008
                             025130°
031130°
      1009 005126
1010
                                                                                         .WORD
      1011
                                                                                         I/O-BUFFERS
     1012-
1013 005130
1014 011130
1015 015130
1016 021130
1017 025130
1018 031130
1019
                                                                         BUF1:
BUF2:
BUF3:
BUF4:
BUF5:
                                                                                         .BLKW.
.BLKW.
.BLKW.
                                                                                                       N.BUFW
N.BUFW
                                                                                                       N.BUFW.
                                                                                         .BLKW
                                                                                                       N.BUFW
N.BUFW
                                                                          BUF6:
                                                                                        .BLKW
      1020
                             0000001
                                                                                         .EHD
                                                                                                       HRLMRG -
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Ť,
HRLMRG MACRO M1110 27+MAR-80 13:29 PAGE 35-1
SYMBOL TABLE Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
ABRTEL
                                     BYTE4 = @@@@@4
                                                                          DH.DMC·
DH.FLG·
DIRERR·
                                                                                      000010
                                                                                                         005 F.CNTG=-000034
                                                                                                                                                    HRLOUT.
                                                                                                                                                                004450R
ASTX-
             002720R
000007
                                     BYTE5
                                                                                      000006
                                                                                                         005 F.DFNB=-000046
F.DSPT=-000044
                                                                                                                                                                915...
                                                                                                                                                    IBDB
ATTR
                               015 BYTE6
                                                 000006
                                                                                      003616R
                                                                                                                                                     IE.EDF=
             004374R
вснно
                                     BYTE7
                                                 000007
                                                                          DH.DCK
                                                                                                         013 F.DVNM= 000134
                                                                                      000000
                                                                                                                                                                004520R
BDB.
                                     BYTE8
                                                 000010
                                                                          DN. NTP
                                                                                      0000004
                                                                                                         013 F.EFBK= 000010
013 F.EFN = 000050
                                                                                                                                                                004544R
004570R
                                                                                                                                                     IOCB2
BDB1
             005114R
                                     BYTE9
BYTVAL
B.BSTA
                                                 000011
000012
                                                                                      000006
                                                                                                                                                     IOCB3
             005116R
BDB2
                                                                    DH.ROT
010 DH.SIZ
                                                                                      888882
                                                                                                         013 F.EOBB= 000032
                                                                                                                                                               -000000
000023
000012
004325R
BDB3
                                                                                                                                                                                  0,15
             005120R
                                                  000054
                                                                                      000010
                                                                                                         013 F.ERR -- 000052
                                                                                                                                                    LBDB
BDB4
             005122R
005124R
                                     B.CHTX
                                                  000046
                                                                                                                                                                                   015
                                                                         EOBFLG
                                                                                                               F:FACC=-000043
F:FFBY=-000014
                                                                    010
                                                                                      004516R
                                                                                                                                                    LBLK
                                                                                                                                                                                   015
BDB5
                                                                    010
                                     B.CQUQ
                                                  равава
                                                                          EODFLG
                                                                                                                                                    LND
BDB6
             005126R
                                     B.FEMA
                                                  000132
                                                                         EDEDOC
                                                                                                               F.FNAM= 000110
F.FNB = 000102
                                                                                      004500R
                                                                                                                                                    LNDE
BITVAL
                                                                                                                                                                .004365R
             000000
                                                                    010 EOHRL
010 ERRX
                                     B. FEMB
                                                  000142
                                                                                      004434R
                                                                                                                                                                003714R
003760R
                                                                                                                                                    LNB
BIT0
BIT1
             000001
                                     B.FEMC
                                                                    010
010
010
                                                                                                         F.FTYP=-000116
015 F.FVER=-000120
                                                                                      003512R
                                                                                                                                                    LNOE
             000002
                                     B.FFSA
                                                                         EVHT-
FDBAD
                                                                                      000006
                                                  000202
                                                                                                                                                    LHI
                                                                                                                                                                003760R
                                     B.FFS0
B.FFSC
BIT10
            002000
                                                  000212
                                                                                      000004
                                                                                                        015 F.HIBK=-000004
F.LUN-=-000042
                                                                                                                                                    LNIE
BITII
                                                                                                                                                                004014R
             004000
                                                  000222
                                                                    010 FDB1
010 FDB2
                                                                                      004614R
                                                                                                                                                    LN2-
LN2E
                                                                                                                                                                004014R
BIT12
BIT13
                                     B.FMHR
B.FQLS
             010000
                                                                    010
010
                                                                                                               F:MBCI= 000055
                                                                                      004754R
                                                                                                                                                                004055R
                                                                         FDUHL
FD.FID
                                                  000162
                                                                                      004432R
                                                                                                                                                    LN3
                                                                                                                                                                004055R
004125R
                                     B.FSAZ
B.FSBZ
B.FSCZ
BIT14
             040000
                                                  000100
                                                                    010
                                                                                                        003 F.MBFG= 000056
003 F.NRBD= 000024
                                                                                      000000
BIT15
                                                                   010 FD.FNB
010 FD.FVR
010 FD.LEN
010 FD.RWM
010 FN.DBR
                                                                                                         003 F.NRBD= 000024
003 F.NREC= 000030
                                                  000102
                                                                                      раварь
                                                                                                                                                   LN4
                                                                                                                                                                004125P
BIT2.
             000004
                                                  000104
                                                                                      000004
                                                                                                                                                    LN4E
             000010
                                     B.HBLK
                                                  000120
                                                                                      000010
******* GX
                                                                                                              F:0VBS=-000030
F:RACC=-000016
                                                                                                         003
                                                                                                                                                    LN5
                                                                                                                                                                004207R
BIT4
             000020
                                     B. HDOO
                                                  000114
                                                                                                                                                    LN5E
BIT5
            000040
                                                  000126
                                                                                                        011 F.RATT= 00001
011 F.RCNM= 00003
011 F.RCTL= 000017
011 F.RCTL= 000002
                                                                                      000026
                                                                   010 FN.DBR
010 FN.DBS
010 FN.DHR
010 FN.EMB
010 FN.EMB
010 FN.EMC
010 FN.ESA
                                                                                                                                                   LN6
                                                                                                                                                                004243R
                                     B. HRI R
                                                  000122
                                                                                                                                                                004325R
001214R
001336R
                                                                                                                                                   LNGE
            000200
                                     B.HRLW
                                                                                      000040
                                                                                                                                                   LOCORY
            000400
                                     B. HMBR
                                                  000052
                                                                                                                                                   LOCXIT
                                                                                                        011 F.RSIZ= 000002
011 F.RTYP= 000100
011 F.SEQN= 000100
011 F.SPQN= 000072
011 F.SPUN= 000074
011 F.STBK= 000036
011 F.UNIT= 000136
011 F.URBD= 000020
            001000
                                     B. HQRY
                                                  000232
                                                                                      000014
BLDEFL= ***** GX
                                                                                                                                                                000062
                                     B.OLSZ
                                                  000106
                                                                                                                                                   MRGDEQ
MRGDGT
                                                                                                                                                                000440R
BLDNFL= ***** GX
BSTADR 004424R
                                     B.QMAF
                                                                                                                                                                000574R
                                                                                      999999
                                                                   010 FN.FSB
010 FN.FSC
010 FN.LGQ
010 FN.LGU
                                     B.QSPL
                                                 000316
                                                                                                                                                   MRGDLT
BSTPTR= ****** GX
BS.CLS= 000002
                                     B.QTTM
                                                 000076
                                                                                      ававаа
                                                                                                                                                   MSGD 003710R
MSGOUT=.****** GX.
MSGPAR 004400R
                                     B. OHOR
                                                 ggggs6
BS.DBU= 000004
BS.INA= 000000
                                     B.SFDB
                                                  000010
                                                                                      000036
                                                                   010 FH.MF0
010 FH.MHR
                                     B.SIZE
                                                 000222
                                                                                                                                                   MSGR
                                                                                                                                                                003654R
BS.OPN= 000001
BS.SRC= 000003
                                                 000012
                                     B.SHDP
                                                                                      000010
                                                                                                        011 F.VBSZ=
011 GETBUF
                                                                                                                                                   MSG1
                                                                                                                                                                003660R
                                                                   010 FN.HMB
010 FN.QLS
010 FN.QRY
010 FN.SF0
                                     B.SSQ
                                                 0000004
                                                                                                                          002570R
                                                                                                                                                   MSG2
MSG3
BUFEOF = 000040
BUFIO 003104R
                                     B.SSQF
                                                                                                        011
011
                                                                                                              GETCMD .
GETFRE=
                                                                                      имимия
                                                                                                                          000004R
BUFIO:
                                                                                                                                                                003670R
                                     B.STAT
                                                 000044
                                                                                                                                                   MSG4
MSG5
                                                                                                                          жжжжжж БХ-
                                                                                                                                                                003674R
            003604R
000001
                                                                                      000030
                                                                                                        011
                                                                                                              GTBLK HDOC
                                                                                                                          003066R
004476R
                                                                                                                                                                003700R
BUFLOK=
                                     B.UDOC
                                                                   010 FH.SF1
015 FH.SHD
                                                 000110
                                                                                      000032
                                                                                                                                                   MSG6
                                     CBLK -
BUFORN= · AAA2AA
                                                 000010
                                                                                                                          002100R
002244R
000642R
001342R
                                                                                      000042
                                                                                                        011
                                                                                                              HGET
                                                                                                                                                               0000002
BUFQIO.
                                                                         FO.MFY=
FO.RD =
                                                                                     ******* GX
                                                 000014
                                                                   015
                                                                                                               HGETX
                                                                                                                                                   NBUHL -
                                                                                                                                                                004426R
BUFRAP = . 000020
                                    CF.80
CF.82
                                                                                                               HI ABRT
                                                                                                                                                                                  015
BUFRD - = . 000004
                                                 000067
                                                                          FO.WRT= энжжинж GX
                                                                                                               HLINIT
                                                                                                                                                   NXTR
                                                                                                                                                                888828
                                                                                                                                                                                  015
BUFUR - = - AAAA 1A
                                    CF.B4
CF.B6
                                                 000066
                                                                          F.ACTL = 000076
                                                                                                               HLMERG
                                                                                                                           000164R
                                                                                                                                                               000004
BUFXIT.
            002714R
                                                                         F.ALOC= 000040
F.BBFS= 000062
F.BDB = 000070
                                                 000065
                                                                                                                           000436R
                                                                                                                                                   N.BHGH= 000000
BUF 1
            005130R
                                    CF.DR0= 000064
CF.DR1= 000063
                                                                                                               HENITS
                                                                                                                          001756R
001212R
BUF2
BUF3
                                                                                                              HLPRBX
HLPROB
                                                                                                                                                   N:BUFB= 004000
            015130R
021130R
025130R
                                     CMDLST
CMDTAB
                                                 000114R
000104R
                                                                                                                                                   N.BUFW= 002000
N.DID = 000024
                                                                                                                           000724R
RHFA
                                                                                                                                                                                  - make ins.
                                                                         F.BKDN= 000026
                                                                                                              HLTERM
HPUT
                                                                                                                           000626R
                                                                         F.BKDS= 000020
F.BKEF= 000050
                                     CMDX-
                                                 004373R
                                                                                                                                                   N.DVMM= 000032
N.FID = 000000
N.FNAM= 000006
                                                                                                                           002424R
BUF6
            031130R
                                     DBSLEN=
                                                                                                                          004452R
004510R
                                                                                                               HRLCHT
                                                                   F.BKPI - 900051
005 F.BKST - 000024
005 F.BKVB - 000064
005 F.CHR - 000075
                                     DONT
                                                 004462R
                                                                                                               HRLHDR
         = 000001
                                                                                                                          0000000 N.FON 0000000
0000000 N.FON 000014
000612R N.FVER 000016
BYTE!
                                     DH. BER
                                                 000002
                                                                                                              HRI MRG-
         = 0000002
                                     DH.BF1
                                                                                                              HRLHTH -
                                                 000004
         ≃ . 000003
BYTE3
                                     DH.CTL
                                                    Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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0.M1110 27-MAR-80 13:29 PAGE-35-2-
Approved For Release 2005/07/2
                                                                                             CIA-RDP85-00514R000100030001-3
SYMBOL: TR
N.NEXT= 000022
                                   SR.DAY
                                               000010
                                                                 002-SS.STT
                                                                                  000000
                                                                                                   004 S.HRL -- 000240
S.NFEN- 000020
                                                                                                                                             XBATCH= 000013
H.PKSZ=
            000020
                                   SR.DLT
                                                                002 STUHL
002 ST ASZ
002 ST BSZ
                                               000014
                                                                                  004430R
                                                                                                                     000020
                                                                                                                                             XDBL OA = . AAAAAA
N.PKTS= 900043
                                   SR.ECB
                                               000047
                                                                                  000020
                                                                                                   006 UDOC-
                                                                                                                                             XDBPRO = -
XDMC (N = -
                                                                                                                     004466R
H.QURY=
                                   SR.ECH
                                               000046
                                                                                  999924
                                                                                                   006
                                                                                                         UGET
                                                                                                                                                        0000006
                                   SR.ECL
SR.FIB
SR.GRE
N.STAT=
           000020
                                               000050
                                                                 002
                                                                      ST.BTC
                                                                                  000000
                                                                                                   006
                                                                                                         UHLONT
                                                                                                                                            XFOSMR= 0000007
XGTSRE= 000014
                                                                                                                     004436R
H.SUHT= 000002
H.UHIT= 000034
                                                                002 ST.CSZ
002 ST.HRL
                                                                                                         UHLHDR
UHLHXT
                                                                                  раваза
                                                                                                   006
                                               000100
000072
                                                                                                   006
                                                                                                                     004440R
                                                                                                                                             XHITSK =
PAR$$$=
           000061
                                   SR.GRS
                                                                002-ST.LEN
                                                                                                         UHLSAV
UHLWD
                                                                                  000044
                                                                                                   006
                                                                                                                     004442R
                                                                                                                                             XHLMER = .
                                                                                                                                                        000002
PAR1
           004400R
                                   SR:LEH
                                               000122
                                                                002 ST.QRY
                                                                                  000002
                                                                                                   006
                                                                                                                     MM4444P
                                                                                                                                             XHOTSK=
                                                                                                                                                        000010
                                                                002 ST.QSZ
002 ST.SCH
002 ST.UHL
002 ST.XLT
002 SU.DBU=
 PAR2
            004402R
                                   SR.LIN
                                               000066
                                                                                  000034
                                                                                                   006
                                                                                                         ULINIT
                                                                                                                     001762R
                                                                                                                                             XMSCHE = -
                                                                                                                                                        999999
 PAR3
                                   SR.LIP
SR.MOH
                                                                                                                                      994494R
                                               000062
                                                                                  000040
                                                                                                   006
                                                                                                         ULHITX
                                                                                                                     992976R
PGMID.
PGMXIT
            004372R
                                               0000006
                                                                                                   006 WH.HTP
006 WH.HXT
                                                                                                                     000004
                                                                                  000004
           000156R
                                   SR.HDC
SR.HDS
                                               000042
                                                                                                                     000006
PUTSSQ:
           ***** GX
                                               000036
                                                                                  000004
                                                                                                         WM.ROT
WM.SIZ
                                                                                                                     000002
                                   SR: HIH
                                               000036
                                                                002
002
                                                                      SU.DON=
                                                                                  000006
                                                                                                                     000010
QE.RO1
QRYID
           000144
                                   SR.HIP
                                              000022
                                                                                                         WH.SRC
WH.TYP
                                                                                  000000
                                                                                                                     000000
            004376R
                                                                002 SU.LDD - 000001
002 SU.SRC - 000002
002 SU.SRC - 000005
002 SU.SRR - 000005
                                  SR.SDB
SR.SRC
SR.SUN
                                                                                                                     000001
                             007
007
0.EDSC
            000004
                                                                                                         WORDØ =
                                                                                                                     ававав
Q.HQBK
            000000
                                               000000
                                                                                                         WORD1 =
                                                                                                                     000002
                                                                                                                                             .DLFNB=·********* GX
                                  SR.TWS
SR.WSL
Q : NUHL
           000002
                                               000056
                                                                                                                                             . PINIT= · жижики G
.FINIT= · жижики G
.FSRCB= · жижики
                                                                                                         MORDO: = GARAGA
Q.SIZE
                                                                002-S.BFHD= 000020
002-S.FATT= 000016
002-S.FDB-= 000140
002-S.FNAM= 000006
            000014
                                               000052
                                                                                                         WORD3
                                                                                                                     000006
                                   SR.YR
SR.1IH
SR.1IP
RCVB.
            004366R
                                               000004
                                                                                                         WORD4 = 000010
                                                                                                                                             жжжжж -= ВИТЯО.
 RELBUF
            002646R
                                               000024
                                                                                                         WORD5
                                                                                                                  = 000012
                                                                                                                                            .READ - - мокжжж G
В мокжжжж - - ТАШ.
R:VXBA=
R:VXTH=
           000006
                                                                                                         WORD6 - 000014
           000002
                                   SS.FID
                                               000002
                                                                004 S.FNB = 000036
004 S.FNBW = 000017
                                                                                                         WORD7
                                                                                                                  = 000016
                                                                                                                                            .WRITE= жжжжжж G
..PC1= 004754R
..PC2= 005114R
..TPC= 009020 ...
RISAV.
SCOUNT
           004460R
004456R
                                               000010
                                                                                                         WORD8 - 000020
                                              000006
000012
                                                                004 S.FNTY= 000004
004 S.FTYP= 000002
                                   SSIEVE
                                                                                                         WORD9 = 000022
SR.ARE
SR.ARS
            000114
                                   SS.LEN
                                                                                                                                            ...TPC= 000020...
                                                                                                         WRDVAL = - 000024
           000106
                             002
 . ABS:
            000000
                           ดดด
           035130
000122
                           001
SRCOFF
                           002
FDSCOR
            000010
                            003
SUSOFF
            000012
                           004
DHROFE
            000012
                           005
006
STTOFF
            000044
           000014
                           007
010
OSPL OF
BSTOFF
ENDEES
           999944
                           011
WNODOF
            000010
                           012
                           013
014
DNODOE
           000010
$DPB$$
IOCBOF
            000010
           000024
                           0.15
                           016
SSESP 1
           000000
          DETECTED:
VIRTUAL MEMORY USED: 7132 WORDS ( 28 PAGES)
DYNAMIC MEMORY: 8084 WORDS ( 31 PAGES)
ELAPSED TIME: 00:01:14
HLMERG, HLMERG/-SP=C20,13P,M,HLMERG
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FOSMRG-PR AM: MACRO: M1110 27-MAR-80 13:28
TABLE: OF TENTS: Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

FOSMRG-EXECUTABLE CODE ERROR HANDLING ROUTINE DATA STORAGE FIELDS AND VARIABLES FILE STRUCTURES AND RECORD BUFFERS

FOSMRG- PROGRAM- MACRO M1110 27-MARPProved For Refease 2005/07/28 : CIA-RDP85-00514R000100030001-3

.FITLE. FOSMRG-PROGRAM

THE FOSMEG PROGRAM SUMS THE FLU OCCURRENCE COUNTERS RECEIVED FROM EACH OF THE SEARCH UNITS, THE INPUT FILES ARE ACCESSED SUCCESSIVELY.

ONE AT A TIME, THROUGH THE SEARCH STATUS TABLE. THE FDSC OF THE OUTPUT FILE IS QUEUED TO HOTSK AND ALSO, MSCHED IS ACKNOWLEDGED WITH AN ACK1 IN THE SSQ.

FOSMRG CAN HANDLE AN ARBITRARY NUMBER OF SEARCH UNITS, SUBJECT TO THESE TWO RESTRICTIONS: THE SEARCH UNIT STATUS ENTRIES ARE STORED CONTIGUOUSLY STARTING AT BASE ADDRESS SUST (A GLOBAL SYMBOL). ALSO, THE NUMBER OF SEARCH UNITS IN THE SYSTEM IS DEFINED BY THE SYMBOL NUMBER OF SEARCH UNITS. N.SUNT.

.MCALL EXIT\$5,RCVX\$C.SDAT\$C.RSUM\$C..MCALL FINIT\$,FDBDF\$.FDRC\$A,FDBK\$A,FDDP\$A,FSRSZ\$A..MCALL FDBK\$R,FDAT\$R,OFNB\$R,OFNB\$W,READ\$,WRITE\$,WAIT\$,CLOSE\$.RADIX 10

```
FOSMRG PRO AM MACRO M1110 27-MAR-80 13:28 PAGE 11
FOSMRG EX TABLE CODE Approved For Palesse
                                                   Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                        .SBTTL FOSMRG EXECUTABLE CODE
        21
           000000
                                                            FOSMRG:
       22
23
24
25
           000000
000004
                                                                        FINIT$
                                                            FOS.10:
           000004
000012
                                                                        RCVX$C
                                                                                    RCVIN
                        103004
                                                                        BCC
       26
27
28
29
           000014
000020
                                                                        CALL
                                                                                    DIRERR
                        000167
                                    000614
           000024
                                                            FOS:15:
           000024
                        012700
                                    001300
                                                                        MOV
                                                                                     #FDBIN.R0
                                                                                                                        ÷EDB-ADDRESS.
∶FDSC-ADDRESS OF CURRENT S.U.
           000030
000034
        30
                        016701
                                    001230
                                                                                    FDSCAD.R1
BLDEFL
                                                                        MOV
                                                                                                                        :BUILD FILE NAME BLOCK IN FDB
        32
       33
34
35
36
                                                                        OPEN: THE: INPUT: FILE: - IF: OPEN: FAILS: REPORT: NON-EXISTENCE: OF: FOS VIA: MSGQUT: AND: GO: ON: TO: THE: NEXT INPUT: FOS
           000040
                                                                        OFNB$R
                                                                                    #FDBIN
        37
           000056
                        103003
                                                                                    FOS.20
FCSERR
                                                                        BCC -
                                                                                                                        : IF · OPEN · OK . DO · THE · READ ·
           000060
000064
000066
        38
                                                                        CALL
                                                                                                                        REPORT NON-EXISTENT S.U. F
SET-UP-NEXT-INPUT-FOS-FILE
       39
40
                                                                        BR
                                                                                    F0S.50
                                                            FOS.20:
           000066
000076
        41
42
                                                                        READ$
                                                                                    #EDBIN
                                                                                                                        :READ · THE · INPUT · FOS · FILE
                                                                        WAIT®
                                                                                    #FDBIN
       43
44
           000106
000110
                        103003
                                                                                                                        ; IF OK, DO THE ACCUMULATION LOGIC
;REPORT FOS READ ERROR
;SET UP NEXT INPUT FOS FILE.
                                                                                    FOS:30
                                                                                    FCSERR
                                                                        CALL
       45
46
           000114
                        000440
                                                                        BR
                                                                                    F0S:50
            000116
                                                            FOS.30:
       47
                                                                                                                        #FDB.ADDRESS
#CLOSE.AND DELETE THE INPUT FOS FILE
#BUMP COUNT OF FOSSILS IN SUMMARY
#IS THIS THE FIRST INPUT FOS FILE?,
           000116
                       012700
                                    001300
                                                                                    #FDBIN,R0
        48
            000122
                                                                                    .DLFNB.
FOSCHT
                                                                        CALL
                       005262
        49
           000126
                                                                        INC
TST
                                    001136
       50
51
           000132
                        005767
                                    001130
                                                                                    FOSBIN
           000136
                                                                                                                        : IN IT IALL ZE FOS HEADER WITH BATCH NO.
                        001014
                                                                        BNE
                                                                                    FOS.40
            000140
                        012767
                                    005652' 001120
                                                                        MOV
                                                                                    #FOS1,FOSBIN
       53
           000146
                                                                        FDBK$R
                                                                                    #FDBIN, FOSBIN
       54
55
56
57
           000160
                        116767
                                    001434 001470
                                                                        MOVB
                                                                                    BCHNO,FOS0+4
           000166
                        000413
                                                                                    FOS:50
                                                                        ACCUMULATE THE FLU OCCURRENCES FROM INCREMENTAL BUFFER (FOS1) . INTO THE SUMMARY BUFFER (FOS0)
       58
59
       60
           000170
                                                            FOS.40:
                                                                                                                       :INITIALIZE.OUTPUT.FOS.POINTER
:INITIALIZE.INPUT.FOS.POINTER
:GET.QUERY COUNT:
:BRANCH.IF ANY.QUERIES.
       61
           000170
                       012703
                                    8816681
                                                                        MOV
                                                                                    #F0S0+6,R3
       62
63
           000174
                        012704
                                                                        MOV
                                                                                    #F0S1+8.R4
           000200
                       012302
                                                                        MOV
                                                                                    (R3)+,R2
       64
65
           000202
000204
                       003002
                                                                        BGT
                                                                                    185
                                                                                                                        :REPORT BAD STRUCTURE AND ABORT THIS FOS
           000210
000210
       66
                                                                        CALL
                                                                                    FOSSUM-
                                                                                                                        :ACCUMULATE FOS FOR A QUERY NEXT QUERY
       68
           000214
                       077203
                                                                        SOB
                                                                                    R2,10s
       69
70
           000216
                                                            FOS.50:
           000216
000224
                                                                                                                       #HAS LAST S.U. JUST BEEN PROCESSED?
#IF SO. OUTPUT ACCUMULATED FOS. F.F. :
#UPDATE CURRENT SEARCH UNIT
#UPDATE POINTER TO ITS FDSC
#PROCESS NEXT INPUT FILE
                                   001036
                                               001036
                                                                        CMP
                                                                                    CSUN, LSUN-
                                                                        BGE
                       002046
                                                                                    F0S:60
      73
          000226
                       005267
062767
                                   001026
                                                                                    CSUN
                                   000012
                                               001024
                                                                        ADD
                                                                                    #10.FDSCAD
           000240
                       000671
                                                                                   F0S.15
```

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FOSMRG-PROGRAM- MACRO-M1110 27-MAR-80 13:28 PAGE 12-FOSMRG-EXECUTABLE-CODE- Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                                                         78
       79
80
        81
        82
        83
            000242
        84
                                                             FOSSUM:
            000242
                                                                                      (R3)+,(R4)+
SUM.10
@R3,(R4)+
SUM.10
                                                                                                                          #QUERY-IDS CONSISTENT?
#BRANCH-IF NOT:
#FLU-COUNTS-CONSISTENT?
#BRANCH-IF NOT:
#GET-FLU-COUNT-FOR THIS-ENTRY-
#BRANCH-IF NO-FLUS IN-ENTRY-
                                                                         CMP
        86
                        001012
021324
            000244
                                                                          BNE
        87
            000246
                                                                          CMP
        88 000250
                        001010
        89
90
           000252
000254
                         012305
                                                                         MOV
                                                                                      (R3) + .R5
                        003405
                                                                         BLE
                                                                                      20$
        91
92
            000256
                                                              10$:
            000256
                        062423
                                                                                                                          :SUM HIGH ORDER WORDS - STEP TO LOW ORDER WORDS :SUM LOW ORDER WORDS - STEP TO NEXT COUNTER PAIR :ADD IN POSSIBLE OVERFLOW :NEXT FLU COUNTERS
                                                                                      (R4) + , (R3) +
       93
94
95
96
97
98
                        062423
005563
            000260
                                                                         ADD
ADC
                                                                                      (R4)+,(R3)+
-4(R3)
            000262
000266
000270
                        077505
                                                                         SOB
                                                                                      R5,10$
                                                             20$:
            000270
                        000207
                                                                         RETURN:
                                                                                                                          : NORMAL · EXIT · POINT
        99
                                                                          {\tt INCOMPATIBLE\ FOS\cdot STRUCTURES\cdot {\it /-} ABORT\cdot THIS\cdot SEARCH\cdot UNIT'S\cdot RESULTS}
      100
            000272
      101
                                                             ŚUM.10:
      102
            000272
                        016767
                                                000772
                                    000762
                                                                         MOV
                                                                                      CSUN, PAR1
                                                                                                                           ;SEARCH-UNIT-NUMBER-
                        005402
066702
      103
            000300
                                                                         NEG
            000302
                                     001352
                                                                         ADD .
                                                                                      FOS0+6.R2
           000306
000312
      105
                                     000762
                                                                                                                          :FOS-ENTRY NUMBER
:INCOMPATIBLE STRUCTURE MESSAGE
:REDUCE COUNT OF FOSSILS DUE TO THIS ABOMINATION
:TRY NEXT INPUT FOS
                                                                                      R2,PAR2
      106
                                                                                      #MSG4, #PAR1
FOSCHT
                                                                         MOUT$S
      192
            000332
                        005367
                                                                         DEC
      108 000336
                        000167
                                     177654
                                                                          JMP
                                                                                      FOS.50
```

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FOSMRG-PROMAM MACRO-MIII0 27-MAR+80 13:28 PAGE 13
FOSMRG-EXI TABLE-CODE: Approved For Release
                                            Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     110
                                                              ALL-FOS-FILES-FROM-THE SEARCH-UNITS-NOW-PROCESSED-
THE-MERGED-FOS-WILL-BE CHECKED-FOR-ANY-OVERFLOW-COUNTERS
     111
     112
113
                                                              AND WILL THEN BE OUTPUT TO [7.4]FOS.MRG
     114
115
          000342
                                                    FOS.60:
                                                                                                        :ANY-FOS-REPORT-AT-ALL?
     116
117
          000342
000346
                     005767
                               000722
                     001511
                                                              BEQ
                                                                                                        :IF-NOT, TELL-OPERATOR-SAD-TALE-AND-EXIT
                                                                         F0S:70
     118
          000350
                     012702
                               0016601
                                                               MOV
                                                                         #F0S0+6,R2
      119
                     012203
                                                              MOV
                                                                         (R2) + .R3
                                                                                                        GET-QUERY COUNT-AND POINT-TO-FIRST-ENTRY-
     120 000356
                                                    10$:
     121
122
          000356
                                                               TST
                                                                         (R2) +
                                                                                                        :SKIP-OVER QUERY-ID-
:GEF-FLU-COUNT-AND-POINT-TO-FIRST-COUNTER:
          000360
                     012204
                                                              MOV
                                                                         (R2)+,R4
          000362
000362
     123
                                                    20$:
                    032722 177774
     124
                                                              BIT
                                                                         #OFLMSK,(R2)+
                                                                                                        :DID:COUNTER:OVERFLOW?
     125
126
          000366
                                                              BOFF
                                                                                                        #BRANCH- IF NO-
#SET-HIGH-ORDER-WORD TO-MAX-VALUE 7555
#SET-LOW-ORDER-WORD-TO-MAX-VALUE 7555
                                                                         30$
                    012762 000003
012722 177777
                                                                         #HIFOS,-2(R2)
#-1,(R2)+
          000370
                                         177776
                                                              MOV
          000376
000402
     127
                                                               MOV
                     000401
                                                              BR
                                                                         40$
          000404
000404
     129
                                                    30$:
     130
                     005722
                                                               TST
                                                                         (R2) +
                                                                                                        :POINT-TO-NEXT-COUNTER-
          000406
000406
     131
                                                    40$:
     132
                     077413
                                                                         R4,20$
R3,10$
                                                                                                        : NEXT - COUNTER
: NEXT - QUERY -
                                                              SOB
     133
          000410
                     077316
                                                              SOB
     134
     135
136
                                                              OUTPUT MERGED FOS FILE
     137
138
          000412
000416
                     012700
                               0014401
                                                              MOV-
                                                                         #FDBOUT,RØ
                                                                                                        :FDB - ADDRESS
                     012701
                                                                                                        #FILE NUMBER:
#BUILD FILE NAME BLOCK IN FDB:
#ALLOCATE 4 SECTORS:
                               000024
                                                              MOV
                                                                         #FN.MFO,R1
     139
          000422
                                                               CALL
          000426
                                                              FDATSR.
                                                                         #FDBOUT,...#-4
     141
          000440
                                                              OFNB$W
                                                                         #EDBOUT
                                                              WRITE$
WAIT$
     143
          000456
                                                                         #FDBOU
      144
          000466
                                                                         #FDBOUT
     145
          000476
                     103006
                                                              BCC
MOV
                                                                         50$
                                                                         #-1.CSUN
          000500
                     012767
                               177777
                                         000552
                                                                                                        ;MERGE-FILE-SIGNAL-
;OUTPUT-ERROR-MESSAGE-
     147
          000506
                                                              CALL
          000512
                     000427
                                                              BR
                                                                         FOS:70
                                                                                                        :TO PROGRAM EXIT
     149
          000514
                                                    50$:
                                                                         150
          000514
                     016767
                                         000000C
                               001022
                                                              MOV
                     016767
                                                              MOV.
     151
          888522
                               001016
                                         овововос
     152
153
          000530
000536
                     016767
                     012767
                               000024
                                         авававас
                                                              MOV
                                                                         #FN.MFO,FDSC+FD.FNB
#FDBOUT
          000544
000554
                                                              CLOSE®
     155
                                                                         HOTSK, RCVB.
     156
          000562
000570
                                                              RSUM$C
                                                                                             :RESUME · HOTSK
                    000407
                                                                         FOS.80
```

 $\tilde{\eta}_{c} f_{+,r}$

191,

FOSMRG-PROGRAM MACRO M1110 27-MAR-80 13:28 PAGE 14 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

```
159 000572-
160 000572-
161
162-
163 164 000610
165 000610
166 000614
167 000622-
168 000626
169 000634
170 000640
171
                                                                               F0S.70:
                                                                                                MOUT$S∙ #MSG3
                                                                                                                                                                      ; NO · MERGE · FILE · PRODUCED ·
                                                                                                PROGRAM-EXIT POINT-
                                                                               Ĥos.00∶
                                                                                                                 GETFRE
ACKSCH,2(R2)
4(R2)
BCHNO,4(R2)
PUTSSQ
                                                                                                CALL ·
MOV ·
CLR ·
MOVB ·
                                                                                                                                                                      :GET-PACKET-FOR-MSCHED-ACK
:MOVE-IN-ACK-MESSAGE
                          016762
005062
116762
                                           001030
                                                             000002
                                           000004
000766
                                                             000004
                                                                                                                                                                      ;MOVE · IN · BATCH · NO ·
;ENTER · PACKET · IN · THE SSQ ·
                                                                               FOS.90:
                                                                                                MOUT$S: #MSG0
EXIT$S:
```

```
FOSMRG-PR
               AM- MACRO M1110 27-MAR-80 13:28 PAGE 15
Approved For Release
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     174
175
176
177
                                                                  .SBTTL - ERROR - HANDLING ROUTINE -
                                                                 .NLIST BEX
                                                           DIRECTIVE - ERROR
     178
179
180
181
           000646
                     011667
                                000420
                                                      DIRERR: MOV-
                                                                            (SP).PAR1
           000652
000656
                      116700
                                 0000A0G
                                                                 MOVB
                                                                            $DSW.R0
                      010067
                                 000412
                                                                 MOV:
                                                                            R0.PAR2
      182
          000660
                                                                 MOUT$S
                                                                            #MSG1,#PAR1
      183
           000702
                      000207
                                                                 RETURN
      184
185
                                                            FCS-ERROR
      186
187
                      011667
016067
112767
           000704
                                 000362
                                                      ÉCSERR: MOV-
                                                                            (SP),PAR1
F.ERR(R0),PAR2
      188
189
190
          000710
000716
                                000052
000377
                                           000356
000351
                                                                 MOV.
                                                                 MOVE
                                                                            #255,PAR2+1
           000724
000732
                                                                 MOV.
MOUT$S.
                      016767
                                 000330
                                           000344
                                                                            CSUN, PAR3
                                                                            #MSG2, #PAR1
      192 - 000752 -
                      000207
      193
194 000754
                                                      :
                                                                 .PSECT
                                                      ;
      196
                                                            STRING DESCRIPTORS
      197
          000754
000756
000760
      198
199
                      000024
001115
                                                      MSG0:
                                                                  .WORD
                                                                            LN0E-LN0
                                                                  . MORD
                                                                            LNA
      200
                                                                 .WORD
                      ававав
                                                      MSGi:
                                                                            LH1E-LH1
     201
202
          000762
000764
                      001000
                                                                            LH1
                      000055
                                                      MSG2:
                                                                  .WORD
                                                                            LH2E-LH2
      203 000766
     204 000770
205 000772
206 000774
                      999925
                                                      MSG3:
                                                                  .WORD
                                                                            LN3E-LN3
                                                                  .WORD
                                                                            LN3
                      000071
                                                      MSG4:
                                                                 .WORD
                                                                            LH4E-LH4
     206 000774
207 000776
208
209
210
211 001000
212 001040
213 001040
214 001115
                      001166
                                                                           LN4
                                                            FORMAT STRINGS
                          120
                                     103
                                                040
                                                      LN1:
                                                                 .ASCIZ: /PC:=:x10. DIRECTIVE:ERROR:=:x1D/.
                                                      LN1E:
                          120
                                     103
                                                040
                                                                  .ASCIZ: /PC:=:%10, FCS ERROR:=:%1D, SEARCH UNIT:=:%1D/:
                                                      LN2F:
     215 001115
216 001141
217 001141
218 001166
                          106
                                     117
                                                123
                                                       LN0:
                                                                 .ASCIZ /FOSMRG PROGRAM EXIT/
                                                       LN0E:
                          116
                                     117
                                                040
                                                                 .ASCIZ: /NO:OUTPUT:FOS REPORT/:
                                                      LN3E:
     219 001166
220 001257
221
                          111
                                     116
                                                103
                                                                 .ASCIZ. /INCOMPATIBLE.FOS.STRUCTURES, S.U. =: %1D, FOS.ENTRY. =: %1D/.
                                                      LN4E:
                                                                  .EVEN
                                                                                                                                                              4.
```

er reactive gas NCA

FOSMRG-PROGRAM: MACRO:M1110 27-MAR-80 13:28 PAGE 16 DATA:STORAGE:FIELDS:AND:VARIABLES:Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3

223 224			.SBTTL	DATA STORAGE FIELDS AND	VARIABLES
225 226 227	000003 177774	ĤIFOS OFLMSK	= . = .	BITØ!BIT1 ↑C <hifos></hifos>	
228 001260 229 001262 230 001264 231 001266 232 001270 233	999999 99991 999926 99999 99999 99999	CSUN: LSUN: FDSCAD: FOSBIN: FOSCNT:	. WORD . WORD . WORD . WORD	0 N:SUNT-1 SUST+2: 0 0	CURRENT SEARCH UNIT NUMBER LAST SEARCH ON TANDMBER S CURRENT FOSC FOINTER INPUT BUFFER FLAG S COUNT OF INPUT FOSSILS
234 001272 235 001272 236 001274 237 001276	888888 888888 888888	IOST: PAR1: PAR2: PAR3:	.WORD .WORD .WORD	0 0 0	:MSGOUT-PARAMETER-LIST-

```
FOSMRG-PR AM MACRO M1110 27-MAR-80 13:28 PAGE 17
FILE STRUE RES-AND RECORD BUFFERSApproved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      239
240
241
242
243
                                                                       .SBTTL- FILE STRUCTURES-AND RECORD RUFFERS
                                                                       FLU-OCCURRENCE-SUMMARY - SEARCH-UNIT-INPUT
           001300
     243 001300
244 001440
245 001440
247 248 248 251 001600
252 001600
253 001600
254 001600
255 001600
255 001600
255 001600
255 001600
                                                                      FDBDF$
                                                           FDBIN:
                                                                                  FD.RWM
                                                                      FDBK$A FO
FDOP$A 1
                                                                                  FOS0.2*N.BUFW.,1.IOST
                                                                       FLU-OCCURRENCE-SUMMARY - MERGED-OUTPUT-FILE
                                                           ÉDBOUT:
                                                                      FDBDF$
                                                                                  FD.RWM.
FOS0.2*N.BUFW.,1,IOST.
                                                                       FDRC$A
                                                                       FDBK$A
                                                                      FDOP$A
                                                                       .EVEN-
                                                                       HOTSK - RCVQ - BLOCK -
     ŔCVB:
                                                                       .BYTE
                                                                                                                      :PROGRAM-ID-
:FOS-FILE-INDICATOR-
:FILE-DESCRIPTOR-AREA
                                                                       .BYTE.
                            000
                                                                                  .
0
4
                                                           FDSC:
                                                                      MSCHED INPUT ROVB
                                                           RCVIN:
                                                                       .BLKW.
                                                                                  3
1
                                                           BCHNO:
                                                                                  11
                                                                       .BLKW-
     269
270
271
272
273
274
275
276
277
278
279
                                                                      MSCHED - ACK - BLOCK -
           001650
                            007
                                                                      .BYTE
                                                           ACKSCH:
                                                                                                                      :PROGRAM-ID-
           001651
                            001
                                                                                                                      : TASK · COMPLETE
                                                                       FOS - SUMMARY - BUFFERS
           001652
                                                           FOS0:
                                                                                  N.BUFW
                                                                                                                      ; SUMMARY BUFFER
           005652
                                                           8091:
                                                                       .BLKW-
                                                                                  N. BUFW.
                                                                                                                      ; INCREMENTAL BUFFER
                       0000001
                                                                                  FOSMRG
```

4877 P. C.

```
FOSMRG-PROGRAM: MACRO:M1110 27-MAR-80 13:28 PAGE 17-1
SYMBOL TABLE
                                            Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
ACKSCH-
          001650R
                               B. NORY
                                          000232
                                                          010 FH.QLS
010 FH.QRY
                                                                          000006
                                                                                          011 F.RACC=-000016
                                                                                                                               PAR 1
                                                                                                                                         901272R
вснно
          001620R
                                B.QLSZ
                                          000106
                                                                                         011 F.RATT= 000001
011 F.RCNM= 000034
                                                                          000020
                                                                                                                               PAR2
                                                                                                                                         001274R
                                                               FN.SF0
FN.SF1
BITVAL=
          000000
                                B. OMAR
                                          000234
                                                          010
                                                                          000030
                                                                                                                               PAR3
                                                                                                                                         001276R
                                                                                                                                                             TOTAL SERVICE
BITO
          000001
                                B.QSPL
                                          000316
                                                                                               F.RCTL= 000017
F.RSIZ= 000002
                                                          010
                                                                          000032
                                                                                                                               PUTSSQ=
                                                                                                                                          яжжжжж GX
BITI
          000002
                                B.OTTM
                                          000076
                                                          ดาล
                                                               FN.SHD
FOSBIN
                                                                          000042
                                                                                                                               QE.RO1=
Q.FDSC
                                                                                                                                         000144
BIT10
BIT11
          002000
004000
                                B.QUQF
                                          000056
                                                          010
                                                                          001266R
                                                                                               F.RTYP = 000000
                                                                                                                                                         007
                                                               FOSCHT
FOSMRG
                                B. SEDB
                                          999919
                                                          ดาด
                                                                          991279R
                                                                                                 SEQN=
                                                                                                         000100
                                                                                                                               Q.NQBK
                                                                                                                                         000000
                                                                                                                                                         997
BIT12
BIT13
           010000
                                B.SIZE
                                                          010
                                                                          000000R
                                                                                               F.SPDV≃.000072
                                                                                                                               Q.NUHL
                                                                                                                                         000002
                                                                                                                                                         007
           020000
                                                          010 FOSSUM
010 FOS.10
                                B. SHDF
                                          000012
                                                                          000242R
                                                                                               F.SPUN=
                                                                                                                               Q.SIZE
                                                                                                                                         000014
                                                                                                                                                         007
BIT14
           040000
                                B.SSQ
                                          000004
                                                                          000004R
                                                                                               F.STBK = : 000036
                                                                                                                               RCVB
                                                                                                                                         001600R
                                                          010 FOS.15
010 FOS.20
010 FOS.30
010 FOS.40
BIT15
           100000
                                B.SSOF
                                          000050
                                                                          000024R
                                                                                                 UNIT=
                                                                                                                               RCVIH
                                                                                                                                         001612R
BIT2
           ававаа
                                B.STAT
                                          000044
                                                                          000066R
                                                                                                                               R.SUTH=
R.VXBA=
                                                                                               F.URBD= AAAAAA
                                                                                                                                         000002
вітз
           000010
                                BISTIE
                                          000053
                                                                          000116R
                                                                                               F. VBN --
                                                                                                         000064
                                                                                                                                         000006
BIT4
           000020
                                B.UDOC
                                          000110
                                                                                               F. VBSZ= 000060
                                                                          000170R
                                                                                                                               R.VXTH=
BIT5
           000040
                                CF.B0
                                          000070
                                                               F0S.50
                                                                          000216R
000342R
                                                                                               GETFRE=
                                                                                                         жжжжжж БХ
                                                                                                                               SR. ARE
                                                                                                                                         000114
                                                                                                                                                        002
002
BIT6
           000100
                                CF.B2
                                                               FOS.60
                                                                                                         000003
001272R
                                                                                               HIFOS - =
                                                                                                                               SR.ARS
BITZ
           000200
                                                               FOS.70
FOS.80
                                                                          000572R
000610R
                                CF.R4
                                          999966
                                                                                               IOST.
                                                                                                                              SR. DAY
                                                                                                                                         000010
                                                                                                                                                         002
BITE
           000400
                                CF.B6
                                                                                                                                         000014
000047
000046 *;
                                                                                               LNØ
                                                                                                         001115R
                                                                                                                               SR.DLT
                                                                                                                                                        002
           001000
                                CF.DR0=
                                          000064
                                                               FOS:90
                                                                          000640R
                                                                                               LNØE
                                                                                                                               SR.ECB
                                CF.DRI-
                                          000063
BLDEFL =
           жжжжжж БУ
                                                                          001652R
                                                                                                                              SR.ECH
SR.ECL
SR.FIB
                                                                                               LN1
                                                                                                         ARTBARR
BLDNFL
                                          001260R
                                                                          005652R -
******** GX
                                                               EOS4
                                                                                               LHIE
                                                                                                          001040R
                                                                                                                                         000050
                                                                                                                                                         602
BS.CLS=
          . 000002
                                DBSLEN=
                                          000116
                                                               FO.RD
                                                                                               LN2
                                                                                                         001040R
                                                                                                                                         000042
                                                                                                                                                         002
BS.DBU=
                                DH.BF0
                                          000002
                                                          005
                                                               FO.WRT= жжжжжж GX
                                                                                               LN2F
                                                                                                         001115R
                                                                                                                               SR.GRE
                                                                                                                                         000100
                                                                                                                                                        002
                                                               F.ACTL= 000076
F.ALOC= 000040
8S: INA=
          • ининия
                                DH.BF1
                                          000004
                                                          005
                                                                                               LN3
                                                                                                         001141R
                                                                                                                               SR:GRS
                                                                                                                                         000022
                                                                                                                                                        002
002
BS.OPH≔
                                DH.CTL
                                          000000
                                                          005
                                                                                               LN3E
                                                                                                          001166R
                                                                                                                               SR.LEN
                                                                                                                                         000122
BS.SRC=
          000003
                                DH.DMC
                                          000010
                                                          005
                                                               F.BBFS= 000062
                                                                                               LN4
                                                                                                         991166R
                                                                                                                                         000066
000062
                                                                                                                                                         002
BYTE0
           000000
                                                          005 F.BDB = 000070
                                DH.FLG
                                          000006
                                                                                               LN4E
                                                                                                                                                         992
BYTE I
           000001
                                DIRERR
                                          000646R
                                                               F.BGBC=
                                                                          000057
                                                                                                                              SR.MOH
SR.HDC
                                                                                               LSUN
                                                                                                         001262R
                                                                                                                                         000006
                                                                                                                                                         002
                                                          013 F.BKDN= 000026
013 F.BKDS= 000020
013 F.BKEF= 000050
013 F.BKFI= 000051
BYTE2
           000002
                                DH.DCK
                                          000000
                                                                                                         000062
                                                                                                                                         0000042
                                                                                                                                                         aab
BYTES
           ававаз
                                DH.HTP
                                          000004
                                                                                               MSGOUT=
                                                                                                         жижжен БХ
                                                                                                                              SR.HDS
                                                                                                                                                         002
BYTE4
           000004
                                DH: HXT
                                          <u>авава6</u>
                                                                                                         000754R
                                                                                               MSG0
                                                                                                                              SR.HIN
                                                                                                                                         000030
                                                                                                                                                         002
                                DH.ROT
DH.SIZ
BYTES
          000005
                                          000002
                                                                                                                              SR.HIP
SR.SDB
                                                                                               MSG1
                                                                                                         999269R
                                                                                                                                         000022
                                                                                                                                                         002
BYTE6
                                          000010
                                                          013
                                                               F.BKST≃.000024
                                                                                               MSG2
                                                                                                         000764R
000770R
                                                                                                                                         000032
                                                                                                                                                         002
                                FCSERR
FDBIN-
BYTE7
           павава 2
                                          000704R
                                                               F.BKVB=
                                                                         000064
                                                                                               MSG3
                                                                                                                              SR.SRC
SR.SUN
SR.TWS
                                                                                                                                         000002
BYTE8
           000010
                                          001300R
                                                               F.CHR - = - 000075
                                                                                               MSG4
                                                                                                         000774R
                                                                                                                                         .00000a
                                                                                                                                                         ัดด2
BYTE9
           000011
                                FDBOUT
                                          991449R
                                                                 :CNTG=-000034
                                                                                              N. BFAC=
N.BHGH=
                                                                                                         000002
                                                                                                                                         000056
000052
                                                                                                                                                        002
BYTVAL
           000012
                          FDSC-
010 FDSCAD
                                          001602R
                                                               F.DFNB=-000046
                                                                                                         000004
                                                                                                                               SR.WSL
                                                                                                                                                         002
BIBSTA
           000054
                                          991264R
                                                               F.DSPT≃ 000044
                                                                                                         000006
                                                                                                                              SR.YR.
SR.1IN
                                                                                                                                         000004
                                                                                                                                                         002
B.CHTX
B.CQUQ
           000046
                          ōiō.
                               FD.FID
                                          000000
                                                               F.DVNM= 000134
                                                          003
                                                                                               N:BTCH=:000004
                                                                                                                                         000024
                                                                                                                                                         002
           000060
                          010
                               FD.FMB
FD.FVR
                                          равава
                                                          003
003
                                                               F.EFBK=-000010
F.EFN-=-000050
                                                                                               N.BUFB= 004000
                                                                                                                              SR. LIP
                                                                                                                                         ติดดัดโล
                                                                                                                                                         ดัต2
B.FEMA
           000132
                          010
                                          000004
                                                                                              N.BUFW= 002000
N.DID = 000024
                                                                                                                              SS.FID
SS.FNB
                                                                                                                                                         004
B.FEMB
           000142
                          010 FD.LEN
                                          000010
                                                          003
                                                               F.E088= 000032
                                                                                               H.DID
                                                                                                         000024
                                                                                                                                         คคคค เค
                                                                                                                                                         004
                          010 FD.RWM
010 FN.DBR
B. FEMO
           000152
                                                               F.ERR -- 000052
                                                                                               N. DVNM= - 000032
                                                                                                                              SS.FVR
SS.LEN
                                                                                                                                                         004
B.FFSA
           000202
                                          000026
                                                          011
                                                               F:FACC=:000043
                                                                                               H.FID - =
                                                                                                         000000
                                                                                                                                         000012
                                                                                                                                                         994
BUEESB
           000212
                          010 FH.DBS
                                                               F.FFBY=
                                                                          000014
                                                          011
                                                                                               N. FHAM= · 000006
                                                                                                                              SS.STT
ST.ASZ
                                                                                                                                         000000
                                                                                                                                                         004
B.FFSC
           000222
                                                               F:FNAM= 000110
F:FNB = 000102
F:FTYP= 000116
                          010
                               FH. DHR
                                          000040
                                                          011
                                                                                               N.FOS -- 000764
N.FTYP- 000014
                                                                                                                                         000020
                                                                                                                                                         996
B. FMHR
           000172
                          010 FH.EMA
010 FH.EMB
                                          000012
                                                          011
                                                                                                                              ST.BSZ
ST.BTC
                                                                                                                                         000024
B.FQLS
           000162
                                          000014
                                                          011
                                                                                               M.FVER= 000016
                                                                                                                                                         006
                          010 FM.EMC
010 FM.FSA
B: FSAZ
           000100
                                          000016
                                                          01
                                                                                               H.HEXT= 000022
                                                                                                                              ST.CSZ
                                                                                                                                         ааааза
                                                                                                                                                         006
B.FSBZ
                                                               F.HIBK= 000004
                                          000000
                                                          011
                                                                                              N.PKSZ= 000020
N.PKTS= 000043
                                                                                                                               ST.HRI
                                                                                                                                         000010
B.FSCZ
           000104
                          010
                               FN: ESB
                                          000002
                                                          011
                                                               F.LUN = F.MBCT=
                                                                         · 000042
· 000054
                                                                                                                               STALEN
                                                                                                                                         999943
          000120
000114
                          010 FN.FSC
010 FN.LGQ
B. HBLK
                                                                                               N.OHRY= : AAAA31
                                                                                                                               ST. OP
                                                                                                                                                         006
                                                                                                                                         000002
B.HDOC
                                                          011
011
                                                               F.MBC1 = 000055
F.MBFG = 000056
                                                                                               N.STAT= 0000020
N.SUNT= 000002
                                          ававаза
                                                                                                                               ST.QSZ
                                                                                                                                         000034
                                                                                                                                                         996
                          010 FH.LGU
010 FH.MFO
                                          000036
000024
BIHRLE
          000126
                                                                                                                              ST.SCH 000040
ST.VAL 000004
ST.XLT: 000014
                                                                                                                                                        996
996
B. HRLR
           000122
                                                                                                                           No TO
                                                          011 F; NRBD = 000024
                                                                                                                                                               #1 N 1 THE
                                                                                               H. UNI
B. HRI LI
          000124
                          010 FH.MHR
                                                          011 F.NREC= 000030
                                                                                               OFLMSK = - 1777774
B.HMBR
          000052
                          010 FN.HMB
                                                                                                                               SUM. 10
                                          000044
                                                          011 F.OVBS=-000030
                                                                                                                                       000272R
                                                                                      CIA-RDP85-00514R000100030001-3
                                            Approved For Release 2005/07/2
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V

```
FOSMRG-PR
SYMBOL-TA
                       AM: MACRO:M1110 27-MAR-80 13:28 PAGE 17-2
                                                               Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
SUST -- = - ****** GX-
                                             S.FNAM= 009006
S.FNB = 000036
                                                                                          WORDØ =
                                                                                                                                       XDBPR0=-000012
                                                                                                                                                                                   $$$0ST=.000006
$$$T1 =.000005
SU.DBU= 000004
                                                                                                                                      XDBCIN= 000016

XDMCIN= 000006

XFOSMR= 000007

XGTSRE= 000014

XHITSK= 000001

XHLMER= 000002

XHOTSK= 000010
                                                                                         WORD1 = 000002
WORD2 = 000004
SU.DON= 000006
SU.IDL= 000000
                                             S.FNBW= 000017
                                                                                                                                                                                   .CLOSE = woodood G.
.DLFNB = woodood GX
.FINIT = woodood GX
.FSRCB = woodood GX
                                             S.FHTY= 000004
                                                                                          WORD3 = 0000006
                                                                                 SU.LOD= 0000001
SU.SRC= 000002
SU.SRR= 000005
SU.XPD= 000003
                                             S.FTYP=
S.HRL =
                                                           000002
                                                           000240
                                             S.HFEH=
WH.HTP
                                                           000020
                                                                                                                                                                                   OPFNB= ********* G

READ = ********* G

WAIT = ******** G

WRITE = ******** G
                                                                                                                                      XMSCHE = 000000
XMSCHE = 000003
XMT0 = 000001
                                                            000004
S:BFHD= 000020
                                             \mathsf{WH}:\mathsf{HXT}
                                                            000006
 S.DABA= 000006
                                             WH.ROT
                                                            000002
S.DAEF=-000010
S.DATH=-000002
                                             WM.SIZ
                                                            000010
                                                                                                                                      XSULOA= 000005
$DSW = ********* GX-
$$$ = 000022R
                                                                                                                                                                            ...PC1= 001440R
...PC2= 001600R
014 ...TPC= 000020
                                             WH.SRC
WH.TYP
                                                            ининия
S.FATT= 000016
S.FDB = 000140
                                                            000001
 . ABS.
                000000
                                   000
               011652
000122
                                   001
002
 SRCOFF
FDSCOF
SUSOFF
                                   003
004
               000010
               000012
 DHROEF
               000012
                                    005
STTOFF
QSPLOF
BSTOFF
               000044
                                    006
               000014
000772
                                   007
010
                                   011
012
013
014
FNOFFS
WNODOF
               999944
               0000010
 DNODOE
               000010
$DPB$$
$$FSR1
               000000
                                   015
ERRORS DETECTED:
                                  0
VIRTUAL MEMORY USED: 6791 WORDS (27 PAGES)
DYNAMIC MEMORY: 8884 WORDS (31 PAGES)
ELAPSED TIME: 00:00:49
FOSMRGFOSMRG/-SP=[20,1]P.M.FOSMRG
```

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0-M1110 27-MAR-80 13:25

Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

REQUEST-STATUS RECORD-FROM-SU-GET-PACKET, SEND-DATA-

```
GTSREC- MACRO M1110 27-MAR-80 13:25 PAGE 10
                                                Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       123456789101123456789
101123456789
                                                                     .FITLE, GTSREC-
                                                                     SBTTL REQUEST STATUS RECORD FROM SU
                                                                     .MCALL
                                                                                RCVX$C
                                                                     .MCALL QIOW$S,MRKT$C,WTSE$C
                       000006
                                                         COLUN=6
                       000001
                                                         ÉF.IO=1
                                                            LOCAL DATA
           000000
                                                                                200
                                                                    .BLKW
                                                                                            :RECEIVE · DATA · AREA ·
            000004
                                                                                            :COMMAND:
                                                                     .WORD
            000006
                       000000
                                                                     .WORD
            000010
                                                                     .BLKW
                                                                                11.
       20
21
22
23
24
25
26
27
28
29
30
           000036
                                                          ÍOSTAT: .BLKW:
                                                                                           ;I/O·STATUS·BLOCK
;LUN·1 =XM0
;LUN·2 =XM1
           000042
                      000001
                                                          XMLUH:
           000044
                                       123
                                                         ROSTSR: .ASCII
                                                                                 ZRSZ
                                                                                            :REQUEST STATUS RECORD DMC EXCHANGE
           000046
                                                                     BLKB
                                                                                N.BUFB-2
                                                            ERROR-MESSAGES
           004044
                                                                     .WORD - ERRIL - .ASCII - /GTSRECX: DMC-WRITE-FAILURE/
                       000032
                                      124
105
072
115
127
124
                           107
122
130
104
           004046
004051
                                                  123
103
                                                         ERRIT:
           004054
004057
                                                  040
                                                  103
122
105
           004062
004065
004070
004073
                                                                                                                                        THE PARTY OF
                           040
111
                           040
111
                                       106
                                                  101
                                       114
                                                  125
                      122
000032
           004076
                                       105
       31
32
33
34
                                                         ERRIL=.-ERRIT
.EVEN
           004100
                      000021
107
122
130
                                                         ÉRR2:
ERR2T:
                                                                     .WORD
                                                                               ERR2L
           004102
004105
                                      124
105
072
111
                                                  123
103
040
       35
                                                                     .ASCII. /GTSRECX: LINK INL/
           004110
004113
                           114
113
116
                                                  116
111
           004116
004121
                                      040
                                       114
       36
37
38
                      000021
                                                         ERR2L=.-ERR2T
                                                                    .EVEN
```

```
PART PARTY.
GTSREC- M D M1110 27-MAR-80 13:25 PAGE 11
GET PACKE SEND DATA Approved For
                                           Approved For Release 2005/07/25 CIA-RDP85-00514R000100030001-3
                                                               .SBTTL - GET PACKET, SEND DATA
      41
42
          004124
                                                    GTSREC:
      43
         004124
                                                              RCVX$C . . RDATA .
                                                                                                        :GET-PACKET
      44
      45
46
                                                         SET-UP LUN-FOR-UNIT-INDICATED IN RECEIVE BUFFER
      47
48
          004132
004140
                                                              MRKT$C+
                                                                        EF.10.30..1
                                                                                                        :WAIT-FOR-30 TICKS
                                                              WTSE$C
MOV∙
          004146
004154
      49
51
52
53
55
56
57
59
                    016767
                               173634
                                                                         RDATA+6, XMLUN
                    062767
                               000001
                                         173669
                                                              ADD
                                                                         #1,XMLUN
                                                      SEND THE EXCHANGE
          004162
                                                    SHDDMC: QIOW$S∙
                                                                        #IO.WLB.@#XMLUN.#EF.IO.,#IOSTAT.,<#RQSTSR.#N.BUFB>
                     122767
          004234
                               000000G · 173574
                                                              CMPB
BEQ -
                                                                         #IS.SUC.IOSTAT
GTSREC
                                                                                                        ; NEXT · PACKET · IF · SUCCES
                    001730
          004242
                                                      DETERMINE
                                                                    TYPE · OF · ERROR
          004244
004252
                     122767
                               000000G-173564
                                                              CMPB -
                                                                         #IE.CHR, IOSTAT
                    001421
                                                              BEQ
                                                                         LHKRST
      60
61
          004254
004262
                     122767
                               000000G-173554
                                                              CMPB
                                                                         #IE.DNR, IOSTAT
                    001415
122767
001411
                                                                        LNKRST.
#IE.TMO.IOSTAT
LNKRST.
#IE.ABO.IOSTAT
                                                              BEO
      62
63
64
          004264
004272
004274
                               000000G-173544
                                                               CMPB.
                                                              BED
                    122767
001405
                               000000G-173534
                                                              CMPB
      65
          004302
                                                    BEQ: LNKRST:
UBRECOVERABLE:LINK ERROR:
MOV: #ERR1.R0
      66
      67
68
          004304
004310
                    012700
                                                                                                        ;MESSAGE - TO - CONSOLE
                                                              CALL
BR
                                                                         COOUT
                                                                                                                                                                69
70
          004314
                    000703
                                                                         GTSREC
                                                                                                        : NEXT - PACKET -
                                                    :RECOVERABLE LINK ERROR LNKRST: MOV #ERR2.R0
      71
72
          004316
                    012700
                                                    LHKRST: MOV-
                              004100
                                                                                                        :MESSAGE - TO - CONSOLE
         004322
                                                              CALL
                                                                         COOUT
      73
74
         004326
                                                                        EF.10,60..1
EF.10
                                                              MRKT$C
                                                                                                        ; WAIT FOR OTHER END TO RECOVER
         004334
                                                              WTSE$C
          004342
                    000707
                                                                         SHDDMC
                                                              BR
                                                                                                        :RE-SEND EXCHANGE
      76
77
78
79
80
                                                      SEND - MESSAGE - TO - CONSOLE -
         004344
                    012001
                                                              MOV-
                                                                         (R0)+,R1
RDATA+6.6(R0)
                                                    COOUT:
         004346
004354
                               173434
                                         000006
                                                                         #60,6(R0)
#10.WLB,#COLUN,#EF:IO,,,,<R0,R1,#40>
                     152760
                               000060
                                         000006
                                                              BISB
      81
82
         004362
004430
                                                              QIOW$S
                    000207
                                                              RTS -
      83
                    0041241
                                                               .END
                                                                         GTSREC
```

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GTSREC- MACRO-M1110 27-MAR-80 13:25 PAGE 10- Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                   B.HDOC
                                               888114
                                                                010 FD.LEN
010 FN.DBR
                                                                                 000010
000026
                                                                                                   003 Q.NQBK
                                                                                                                     000000
                                                                                                                                           ST.SCH-
ST.UHL-
ST.XLT-
                                                                                                                                                        000040
                                                                                                                                                                         006
BIT0
BIT1
           000001
                                   B.HRLP
                                               000126
                                                                                                   011 Q.NUHL
011 Q.SIZE
                                                                                                                     000002
                                                                                                                                                        000004
                                                                                                                                                                         996
                                   B. HRLR
                                                                010 FN.DBS
010 FN.DHR
                                               000122
                                                                                  000022
                                                                                                                     000014
                                                                                                                                      007
                                                                                                                                                        000014
                                                                                                                                                                         006.
BITIA
           002000
                                   B.HRLW
                                               000124
                                                                                  000040
                                                                                                   011
                                                                                                         RDATA:
                                                                                                                     BEREGER
                                                                                                                                            SU.DBU
                                                                                                                                                        000004
BITii
            004000
                                   B, NMBR
                                               000052
                                                                010 FN.EMA
010 FN.EMB
                                                                                  000012
                                                                                                         ROSTSR
                                                                                                                     000044R
                                                                                                                                            SU.DON=
SU.IDL=
                                                                                                                                                        000006
BIT12
           010000
                                   B.NORY
B.OLSZ
                                                                                                        R.VXBA=
R.VXTN=
                                                                                                                    000006
000002
                                                                                                   011
            020000
                                                                                                                                                        000000
                                                                010
010
                                                                     FN.EMC
FN.FSA
                                               000106
                                                                                  000016
                                                                                                   011
                                                                                                                                            SU.LOD=
                                                                                                                                                       000001
                                               000234
BIT14
           равово
                                   B.QMAP
                                                                                  000000
                                                                                                   011
                                                                                                         SHDDMC
                                                                                                                    004162R
                                                                                                                                                        000002
 BIT15
            100000
                                   B.QSPL
                                                                010 FN.FSB
010 FN.FSC
                                                                                  000002
000004
                                               000316
                                                                                                   011
                                                                                                         SR.ARE
                                                                                                                    000114
                                                                                                                                      002 SU.SRR=
002 SU.XPD=
002 S.HRL =
                                                                                                                                                        _
คดดดดกร
BIT2 -
            000004
                                   B.QTTM
                                               000076
                                                                                                         SR.ARS
                                                                                                   011
                                                                                                                    000106
                                                                                                                                                        000003
            000010
                                   B. QUOF
                                                                010
010
                                                                     FH.LGQ
FH.LGU
                                               000056
                                                                                  000034
                                                                                                   011
                                                                                                         SR.DAY
                                                                                                                     000010
                                                                                                                                                        คัดควิสต
                                   B.SFDB
B.SIZE
BIT4
            000020
                                               000010
                                                                                  000036
                                                                                                   011
                                                                                                        SR.DLT
SR.ECB
                                                                                                                                                                         012
012
012
                                                                                                                    000014
                                                                                                                                      002 WH.HTP
                                                                                                                                                        000004
            000040
                                                                010 FH.MFO
010 FH.MHR
                                               000772
                                                                                  000024
                                                                                                   011
                                                                                                                    000047
                                                                                                                                      002 - UN . NXT
                                                                                                                                                        ававаь
BIT6
BIT7
           000100
                                   B.SNDP
                                                                                                                                      002 WN.ROT
002 WN.SIZ
002 WN.SRC
002 WN.TYP
                                                                                  000010
                                                                                                   011
                                                                                                         SRIECH
                                                                                                                    999946
                                                                                                                                                        000002
            000200
                                   B.990
                                               000004
                                                                010 FH.HMB
010 FH.QLS
                                                                                  прирада
                                                                                                   011
                                                                                                                    000050
                                                                                                                                                        000010
                                                                                                                                                                         012
BIT8
            000400
                                   B.SSQF
                                               000050
                                                                                  000006
                                                                                                   011
                                                                                                        SR.FIB
                                                                                                                    000012
                                                                                                                                                        000000
                                                                                                                                                                         012
ВІТ9
                                   B.STAT
                                                                010
010
                                                                     FH.QRY
FH.SF0
                                                                                  000020
000030
                                                                                                   011 SR.GRE
011 SR.GRS
                                               000044
                                                                                                                    000100
                                                                                                                                                       0000001
                                                                                                                                                                         012
BS.CLS=
BS.DBU=
                                   B.STTE
B.UDOC
           000002
                                               000053
                                                                                                                    000072
                                                                                                                                      002-WORD0
002-WORD1
                                                                                                                                                       000000
                                               000110
                                                                     FM.SF1
                                                                                                        SR.LEH
SR.LIH
                                                                010
                                                                                  000032
                                                                                                                                                       000002
                                               naaaze
BS: INA=
           000000
                                   CE . BR
                                                                                  000042
                                                                                                                                      002 - WORD2
002 - WORD3
                                                                                                                    000066
                                                                                                                                                       000004
BS.OPH=
           000001
                                   CF.B2
                                               000067
                                                                      GTSREC
                                                                                  004124R
                                                                                                         SR.LIP
                                                                                                                     000062
                                                                                                                                                       000006
                                   CF.B4
CF.B6
                                                                      IE.ABO=
IE.CHR=
BS:SRC=
           000003
                                              000066
                                                                                                                                      002 WORD4
002 WORD5
                                                                                                         SR: MON
                                                                                                                    000006
                                                                                                                                                       000010
BYTE0
BYTE1
            000000
                                               000065
                                                                                                         SR.HDC
SR.HDS
                                                                                 жижжик БХ
                                                                                                                    000042
                                                                                                                                                       000012
            000001
                                   CF: DRM=
                                              000064
                                                                       IE.DHR=
                                                                                                                                                       000014
                                                                                                                    000036
                                                                                                                                      002-WORD6
002-WORD7
BYTE2
            000002
                                   CF.DR1=
                                               000063
                                                                      IE.TMO= · жжжжжжж GX
                                                                                                         SR.HIN
                                                                                                                    000030
                                                                                                                                                       000016
BYTE3
           000003
                                   COLUN: =
                                              999996
                                                                       IOSTAT
                                                                                  000036R
                                                                                                         SR.HIP
                                                                                                                    999922
                                                                                                                                      002 - WORD8
002 - WORD9
                                                                                                                                                       000020
BYTE4
BYTE5
            000004
                                   COOUT
                                               004344R
                                                                      IO.WLB=
IS.SUC=
                                                                                 жжжжие СУ
                                                                                                         SR.SDB
SR.SRC
                                                                                                                                                       000022
            000005
                                              000116
000002
                                   DBSLEN=
                                                                                                                                      002 · WRDVAL = · 000024
002 · W. TSEF = · 000002
                                                                                                                    000002
BYTE6
            0000006
                                   DH.BF0
                                                                005 LNKRST
                                                                                  004316R
                                                                                                         SR.SUN
                                                                                                                    000000
                                   DH.BF1
DH.CTL
DH.DMC
BYTE7
                                                                005 M. = 005 M.KTAE=
                                                                                                         SR.TWS
           000007
                                               000004
                                                                                  000062
                                                                                                                    000056
                                                                                                                                      992
                                                                                                                                           · XBATCH= · 000013
· XDBLOA= · 000004
BYTE8
            000010
                                               000000
                                                                                  000010
                                                                                                         SR.WSL
                                                                                                                    000052
                                                                                                                                      002
                                                               005 M.KTAE=-000010
005 M.KTMG=-000002
005 M.KTMG=-000004
013 M.KTUN=-000006
013 N.BFAC=-000004
013 N.BFAC=-000006
013 N.BFGH=-000006
BYTE9
            000011
                                               000010
                                                                                                         SR.YR
                                                                                                                                           · XDBPRO= · 000012
· XDMC IN= · 000006
                                                                                                                    000004
                                                                                                                                      002
BYTVAL
            000012
                                   DH.FLG
                                               000006
                                                                                                         SR.1IN
SR.1IP
                                                                                                                    000024
                                                                                                                                      002
BIBSTA
                             010
                                  DH:DCK
                                              000000
            000054
                                                                                                                    000016
                                                                                                                                      002 XFOSMR = 000007
004 XGTSRE = 000014
⊟.CMTX
                             010
                                                                                                         SS.FID
SS.FNB
B.CQUQ
           000060
                             010 DH.HXT
010 DH.ROT
                                               000006
                                                                                                                                      004 XHITSK = 000011
004 XHLMER = 000002
                                                                                                                    000010
                                              000002
B.FEMA
            000132
                                                                                                         SS.FVR
SS.LEN
                                                                                                                    000006
                             010 DH.SIZ
010 EF.IO
010 ERRI
B.FEMB
           000142
                                              000010
                                                                                                                    000012
                                                                                                                                      004 XHOISK= 000010
B.FEMC
B.FFSA
                                               000001
                                                                     N.BUFB = 004000
                                                                                                         SS.STT
ST.ASZ
                                                                                                                    000000
                                                                                                                                     004 XM UN 000042R
006 XMSCHE 0000000
006 XOTS = 000003
                                                                                                                                      004
            000202
                                              004044R
                                                                      M.BUFW= 002000
                                                                                                                    000020
BIFFSB
            000212
                             010
                                   ERR1L
                                                                     N.FOS = 000764
N.PKSZ= 000020
N.PKTS= 000043
                                              000032
                                                                                                         ST.BSZ
                                                                                                                    000024
B.FFSC
            000222
                             010
                                   ERR1T
                                              004046R
                                                                                                         ST.BTC
                                                                                                                                           XOT0 = 000001
XSULOA= 000005
                                                                                                                                                    = 0000001
                                                                                                                    000000
                                                                                                                                      006
            000172
B. EMHE
                                               004100R
                                                                                                         ST.CSZ
                                                                                                                    000030
                                                                                                                                      006
B.FQLS
            000162
                             010
                                  ERR2L
                                              000021
                                                                     N.QURY= 000031
N.SUNT= 000002
                                                                                                         ST.HRL
                                                                                                                    000010
                                                                                                                                      996
                                                                                                                                           200
                                                                                                                                                    = · 000,040R
                             010 ERR2T.
010 FD.FID
                                              004102R
B.FSAZ
            000100
                                                                                                         STILEN
                                                                                                                    999944
                                                                                                                                           $$$ABG_ 000002
$$$0$T_ 000004
$$$T1' = 000000
B.FSBZ
            000102
                                                                003 QE.RO!= 000144
003 Q.FDSC 000004
903
                                              000000
                                                                                                         ST.QRY
                                                                                                                    0000<del>00</del>
                                                                                                                                     Vinc.
B.FSCZ
            000104
                             010 FD.FNB
010 FD.FVR
                                                                                                   007
                                                                                                        ST.QSZ
                                                                                                                    000034
B.HBLK
            000120
                                              000004
                           000
           004432
000122
                           001
002
                                                                                                                                             SRCOFF
FDSCOF
SUSOFF
DHROFF
                                                                                                                                  000010
                           aa3
           000012
000012
                                                                                                                            ALL STATES
                                                                                                                                               Manage to the party
                           995
           000044
STIME
QSPLOF
                                                 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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GTSREC- M 0 M1110 27-MAR-80 13:25 PAGE:11-2.

SYMBOL.TA Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3 PAGE: Approved For Release 2005/07/2 CIA-RDP85-00514R00010003001-3 PAGE: Approved For Release 2005/07/2 CIA-RDP85-00514R00010003001-3 PAGE: Approved For Release 2005/07/2 CIA-RDP85-00514R00010003001-3 PAGE: Approved For Release 2005/07/2 CIA-RDP85-005/07/2 PAGE: Approved For Release 2005/07/2 PAGE: Approved For Release 2005/07/2 PAGE: Approved For Release 2005/0
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0 M1118 27-MAR-80 13:37 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

STT-COMMAND-DISPATCHER-



```
STATUS: MOO:M!110 27-MAR-80 13:37 PAGE:11
STT:COMMA DISPATCHER: Approved For
                                                          Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
         16
17
                                                                        DATA:
         18
19
             000000
                                                                     GETCMD: GMCR$
                                                                                                                            :GET-COMMAND-LINE
        20
21
22
23
                                                                     : MESSAGES
MSG1: .WORD
MSG1T: .ASCII
             000122
000124
000127
000132
                                                                                   .WORD: MSGIL:
.ASCII: /STT: INVALID:COMMAND/
                           000024
                                 123
072
116
114
                                                            124
111
101
104
117
101
                                               124
                                               040
126
111
              000135
                                 040
                                               103
115
              000143
              000146
                                 116
                                               104
        24567890123345678904123445
                           000024
                                                                     MSG1L=:-MSG1T
             000150
000202
                                                                     SNDPKT: .BLKW-
IOSTAT: .BLKW-
                                                                                                13.
2
                                                                                                                            :SEND.PACKET:
:I/O.STATUS:
                                                                     . GOMMAND DISPATCH TABLE DSPTBL:
             000206
000206
000210
                           000240°
000000
006274
000246°
                                                                                   .WORD
                                                                                                                            :ADDRESS OF STRING
:COMMAND CODE
:HANDLING TASK NAME
                                                                                                BTCHST-
                                                                                               Ø
ZBATCHZ-
DTBSST-
                                                                                   .WORD
             000212
000216
000220
                                                                                   .RAD50
                                         012000
                                                                                                2.
/DBSTAT/-
                                                                                   .WORD
.RAD50
                           000002
             000222
000226
                           014543
000257
                                                                                   .WORD
                                                                                                STTSST-
             000230
000232
                           000004
                                                                                   . MORD
                                         077770
                           074741
                                                                                   .RAD50
                                                                                                /STATS/
             000236
                           000000
                                                                                   .WORD
                                                                                                                            :END - OF - TABLE
        46
47
                                                                    : GOMMAND-CODE-STRINGS-
BTCHST: .ASCIZ- /BATCH/
             000240
000243
000246
000251
000254
000257
                                               101
110
101
102
105
                                 102
103
104
101
                                                            124
000
124
101
000
         48
                                                                     DTBSST: .ASCIZ: /DATABASE/.
                                 123
123
124
         49
                                               124
123
                                                             101
                                                                    STTSST: .ASCIZ: /STATS/
             000262
                                                                                   .EVEN-
```

ales de las

```
STATUS: MACRO:M1110 27*MAR:80 13:37 PAGE:12:STT:COMMAND:DISPATCHER: Approved For
                                                 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       53
54
55
56
57
                                                            DETERMINE . TYPE . OF . INPUT .
            000266
                                                          START:
            000266
                                                                     DIRS
                                                                                 #GETCMD
                                                                                                                    :GET-COMMAND-LINE-
       58
59
           000274
000300
                       016701
162701
                                  000000G
                                                                     MOV.
                                                                                 $DSW.R1
                                                                                                                    :LENGTH OF DATA:
:MINUS 'STT'
                                  000004
                                                                      SHB
                                                                                 #4.R1
       60
61
           000304
                                                                                 SYNTXE
                                                                      BLE
                                                                                                                    :NO PARAMS
                                                            START COMMAND PARSE
           000306
000310
000314
        62
                                                          PARSIN:
                                                                     SAVE
                                                                                                                    :LENGTH-OF PARAMS:
:FIRST-DISPATCH-TABLE-ENTRY
       63
64
                       012704
                                  0002061
                                                                                 #DSPTBL,R4
                                                                     MOV
                                                          ; NEXT.DISPATCH.TABLE.ENTRY:
1$: MOV: #GETCMD+G.MCRB+4,R2:
           000316
000322
                       012702
016601
                                                                                                                   :ADDRESS-OF-COMMAND:
:LENGTH-OF INPUT:
:NEXT-DISP TABLE-ENTRY:
:COMMAND-STRING-ADDRESS
       66
                                   000006'
        67
                                  000002
                                                                     MOV-
                                                                                 2(SP),R1
(SP),R4
       68
           000326
                       011604
                       012403
                                                                     MOV
                                                                                 (R4) + R3
        78
           000332
000334
                        122322
                                                                                                                   GMPB -
                                                                                 (R3)+,(R2)+
                       001014
122712
                                                                     BNE -
                                                                                 4$
#*/,(R2)
           000336
                                   000057
           000342
                       001006
                                                                     BHE TSTB
                                                                                 3$
           000344
000346
        75
                                                                                 (R3)
        76
                                                                                                                                                                 001004
                                                                                 3$
#2,R1
                                                                     BHE
       77
78
79
           000350
000354
                       162701
005202
                                                                     SUB
                                                                                                                    :MATCHED - ACCOUNT FOR //
                                                                      INC
                                                                                 R2
            000356
                       000443
                                                                                 MTCHCD -
                                                                     BR
       80
                      077114
105713
                                                                                                                   CONTINUE COMMAND SCAR :: OUT OF COMMAND INPUT - BRANCH : IF END OF COMMAND
           999369
                                                                      SOB
                                                                                 R1.2$
            000362
                                                                      TSTB
                                                                                 (R3)
            000364
                       001440
                                                                     BEQ
                                                                                 MTCHCD -
                                                            NO MATCH THIS ENTRY

$: ADD #8. (SP)
           000366
000372
                      062716
005776
       84
                                  000010
                                                                                                                    #NEXT: TABLE: ENTRY: ADDRESS
#CONTINUE: IF: NOT:
# END: OF: TABLE:
                                  000000
                                                                     TST
                                                                                 00(SP)
       86
           000376
                       661347
                                                                     BHE
                                                                                 1$
       87
                                                          : NO-MATCH IN-TABLE
       88
           000400
                      062706
                                  000004
                                                                     ADD
                                                                                 #4,SP
                                                                                                                    ; RESTORE - STACK -
       89
90
                                                            SYNTAX-ERROR-
           000404 012700
                                  0001221
                                                          SYNTXE: MOV
                                                                                 #MSG1.R0
       92
       93
                                                            ISSUE MESSAGE TO CONSOLE
DOUT: MOV- (R0)+.R1
QIOW$S #10.WLB,#TILUN,#TIEF,,,,<R0,R1,#40>
           000410
000412
                      012001
       96
       97
98
           000460
                                                                     EXIT$S
      188
                                                            MATCHED DISPATCH TABLE ENTRY
                      062706
012700
012420
010120
           000466
000472
      101
                                                                                                                   #RESTORE STACK 

#SEND PACKET ADDRESS 

#COMMAND CODE 

##OF PARAM CHARS
                                                         MTCHCD: ADD:
                                                                                 #4,SP
                                                                     MOV
                                                                                 #SHDPKT,R0
(R4)+,(R0)+
      102
                                  000150
      103
           000476
000500
                                                                     MOV
                                                                                 R1.(R0)+
                      001406
100737
020127
101334
      195
           000502
                                                                                                                    NO PARAMS
ERROR SI TEPED THROUGH
ERROR 14 122
                                                                                                                    : NO PARAMS
     106
107
           000504
                                                                                SYNTXE
R1.#22.
SYNTXE
(R2)+,(
                                                                     BMI
           000506
                                  000026
          000512
000514
                                                                     BHI
                                                1$: MOVB. (R2)+, R8)+
Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     109
                       112220
```

```
STATUS MACRO M1110 27+MAR-80 13:37 PAGE 12-2
SYMBOL TABLE Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
BITVAL = . 000000
                                   B.FSBZ
B.FSCZ
                                                                 010 FH.DBR
010 FH.DBS
                                               000102
                                                                                   000026
                                                                                                    011
                                                                                                         SNDPKT
                                                                                                                     999159R
                                                                                                                                             SU.DBU= 000004
BIT0
         = 0000001
                                                000104
                                                                                                    011
011
                                                                                                                                       002-SU.DON=-000006
002-SU.IDL=-000000
002-SU.LOD=-000001_-
                                                                                  000022
                                                                                                          SR.ARE
                                                                                                                      000114
BITI
                                                                 010 FN.DHR
010 FN.EMA
           000002
                                   B. HBLK
                                               000120
                                                                                   000040
                                                                                                          SR.ARS
                                                                                                                                       002
                                                                                                                      000106
BIT10
           002000
                                    B.HDOC
                                               000114
                                                                                  000012
                                                                                                    011
                                                                                                          SR.DAY
                                                                                                                      000010
                                                                 010 FN.EMB
010 FN.EMC
010 FN.FSA
010 FN.FSB
BITII
            004000
                                    BUHRLP
                                               000126
000122
                                                                                   000014
                                                                                                         SR.DLT
SR.ECB
SR.ECH
                                                                                                    011
                                                                                                                      000014
                                                                                                                                       002
                                                                                                                                             SU.SRC=2000002. v
BIT12
BIT13
            010000
                                    B. HRLR
                                                                                                    011
011
                                                                                   000016
                                                                                                                      000047
                                                                                                                                       002
                                                                                                                                             SU-SRR=/.000005
                                    B. HRI LI
                                               000124
                                                                                   000000
                                                                                                                      000046
                                                                                                                                       002 SU.XPD= 000003
002 SYNTXE 000404
 BIT14
            адавав
                                    B. HMBR
                                                                                                         SR.ECH
SR.ECL
SR.FIB
SR.GRE
SR.GRS
SR.LEN
SR.LEN
                                                                                                   011
011
011
                                                                                   000002
                                                                                                                      000050
BIT15
            100000
                                                                                                                                                         MANAMAR.
                                                                      FM.FSC
FM.LGQ
                                    B. NORY
                                               000232
                                                                 010
                                                                                   000004
                                                                                                                                       002 S.HRL
002 TIEF
002 TILUN
002 WH.HTP
                                                                                                                                                        . 000240
. 000001
                                                                                                                      000012
                                   B.QLSZ
B.QMAF
 BIT2 -
            000004
                                               000106
                                                                 010
                                                                                   000034
                                                                                                                      000100
000072
BIT3
BIT4
            000010
                                                                010 FN.LGU
010 FN.MFO
                                                                                                   011
                                               000234
                                                                                   000036
                                   B.QSPL
B.QTTM
            000020
                                               000316
                                                                                   000024
                                                                                                                      000122
                                                                                                                                                         000004
                                                                                                                                                                          012
 BITS
            000040
                                                                                                                                    002- WN. KC
002- WN. KC
002- WN. SIZ-
002- WN. SRC-
002- WN. TYP-
902- WORDO
WORDO
                                                                010 FH.MHR
010 FH.HMB
                                               000076
                                                                                  000010
                                                                                                    011
                                                                                                                      000066
                                                                                                                                                                          012
012
012
                                                                                                                                                         nanana
 BIT6
            000100
                                    B - OHOE
                                               000056
                                                                                  000044
                                                                                                    011 SR.LIP
                                                                                                                      999962
                                                                                                                                                         000002
            000200
                                                                010 FH.QLS
010 FH.QRY
                                    B.SFDB
                                               000010
                                                                                                   011
011
011
                                                                                  папапа
                                                                                                         SR.MON
                                                                                                                      000006
                                                                                                                                                         000010
                                               000772
 BIT8.
            000400
                                    B.SIZE
                                                                                  000020
                                                                                                         SR.NDC
                                                                                                                      000042
                                                                                                                                                         000000
            001000
                                                                                                                                                                          012
 BIT9
                                    B.SNDP
                                               000012
                                                                010 FN.SF0
010 FN.SF1
                                                                                  000030
                                                                                                          SR.NDS
                                                                                                                      000036
                                                                                                                                                         000001
                                                                                                                                                                          012
                                   B.SSQ
B.SSQF
 85.CLS=:000002
                                                                                  000032
                                                                                                    011
                                                                                                         SR: HIH
                                                                                                                     000036
                                                                                                                                                        000000
 BS.DBU=
            000004
                                                                010 FN.SHD
010 GETCMD
                                                                                  000042 · 00000R
                                               000050
                                                                                                          SR.HIP
                                                                                                                     000022
                                                                                                                                                        900002
000004
BS.INA= @@@@@@
                                    B.STAT
                                               000044
                                                                                                          SR.SDB
SR.SRC
                                                                                                                                       002 - WORD2
002 - WORD3
                                                                                                                     000032
BS.OPH=
                                    B.STTE
                                                                      G.MCRB=
IOSTAT
                                               000053
                                                                 010
                                                                                  000002
                                                                                                                     000002
                                                                                                                                                        000006
                                   B.UDOC
CF.B0
                                               000110
BS.SRC= 000003
                                                                 010
                                                                                  000202R
                                                                                                          SR . SUN.
                                                                                                                     равава
                                                                                                                                       002
                                                                                                                                             WORD4
                                                                                                                                                        000010
 BTCHST-
            000240R
                                                                                  жжжжжж GX-
000062
                                                                                                                                      002-WORD5 - 1
002-WORD6 = 000014
002-WORD7 = 000016
002-WORD8 = 000020
                                                                       IO.WLB=
                                                                                                          SR. TWS
                                                                                                                     000056
                                   CF.B2
CF.B4
BYTE0 =
           ававава
                                               000067
                                                                                                          SR. USL
                                                                                                                     000052
BYTE1
                                               000066
                                                                       MSG1
                                                                                  989122R
                                                                                                          SR.YR
                                                                                                                      0000004
                                   CF.B6 =
CF.DR0=
CF.DR1=
BYTE2
            000002
                                               000065
                                                                       MSGIL.
                                                                                  000024
                                                                                                         SR.1IN
SR.1IP
SS.FID
                                                                                                                     000024
                                                                                                                                            WORD8 = 000020
WORD9 = 000022
BYTE3
BYTE4
            000003
                                               000064
                                                                                  999124R
            000004
                                               000063
                                                                       MTCHCD
                                                                                                                                       004 WRDVAL = 000024
004 XBATCH = 0000 13
004 XDBLOA = 0000064
004 XDBPRO = 000012
                                                                                                                     000002
BYTE5
            000005
                                   COOUT
                                               000410R
                                                                       N.
                                                                                  000002
                                                                                                          SS.FNB
BYTE6
           000006
                                               000116
                                   DBSLEN=
                                                                       N.BFAC=
                                                                                  000004
                                                                                                          SS:FVR
                                                                                                                     рававе
BYTE7
            000007
                                    DH.BF0
                                               000002
                                                                 005 N.BHGH=
                                                                                                         SS.LEN
SS.STT
                                                                                  ававая
BYTE8
            000010
                                   DH.BF1
                                               <u>вавава</u>
                                                                 005
                                                                      H.BTCH=
                                                                                                                                       004 XDMCIN= 000006
XFOSMR= 000007
                                                                                                                     ававава
BYTES
            000011
                                   DH.CTL
                                               000000
                                                                 005
                                                                      N. BUFB =
                                                                                  004000
                                                                                                          START
                                                                                                                      000266R
                             DH.DMC
010 DH.FLG
010 DH.DCK
BYTVAL
            000012
                                                                005 N.BUFW=
005 N.FOS =
                                               000010
                                                                                  002000
                                                                                                          STTSST
                                                                                                                     000257R
                                                                                                                                            XGTSRE = 000014
XHITSK = 000011
            000054
000046
B.BSTA
                                               000006
                                                                                  000764
                                                                                                         ST.ASZ
ST.BSZ
                                                                                                                     000020
                                                                                                                                       006
                                                                005 N.FUS =
013 N.PKSZ=
013 N.PKTS=
013 N.QURY=
013 N.SUNT=
013 PARSIN
B.CHTX
                                               000000
                                                                                  000020
                                                                                                                                       006
006
                                                                                                                                            XHLMER = 000002
XHOTSK = 000010
                                                                                                                     000024
                             010
010
                                   DH.HTP
B.CQUQ
            000060
                                               000002
                                                                                                         ST.BTC
                                                                                  000043
                                                                                                                     000000
B.FEMA
                                               0000AF
                                                                                  000031
                                                                                                                     000030
                                                                                                                                       996
                                                                                                                                            XMSCHE = . 000000
                                   DH.ROT
DH.SIZ
DSPTBL
                             010
010
                                               000002
000010
B. FEMB
            000142
                                                                                  000002
                                                                                                                                                   - 000003
- 000001
                                                                                                          ST. HRL
                                                                                                                                       006
006
                                                                                                                     000010
                                                                                                                                             XQTS
B.FEMC
B.FFSA
           000152
000202
                                                                                  000306R
                                                                                                         ST.LEN
ST.QRY
                                                                                                                                             XOTO
                                                                      QE.RO1:
Q.FDSC
                             010
                                               000206R
                                                                                                                     000002
                                                                                                                                       ññ6
                                                                                                                                            XSULOA= 0000005
$DSW = ********
                             010 DTBSST
010 FD.FID
010 FD.FNB
B.FFSB
            000212
                                               000246R
                                                                                  000004
                                                                                                   002
                                                                                                         ST.QSZ
                                                                                                                     000034
                                                                                                                                       006
                                                                                                                                                     ≃ - жжжжжжж Б
D.FFSC
            000222
                                                                003 Q.NQBK
                                               оворов
                                                                                  000000
                                                                                                   007
                                                                                                         ST.SCH
                                                                                                                                            $$$ARG=.000002
$$$OST=.000122
                                                                                                                     000040
                                                                                                                                       006
B. FMHR
           000172
                                                                                  000002
                                                                                                   997
                                                                                                            ·UHL
                                                                                                                     000004
                                                                                                                                       006
B.FQLS
            000162
                             010
                                   FD. EVR
                                               999994
                                                                      Q.SIZE
                                                                                                         ST.XLT
                                                                                                                     000014
                                                                                                                                       006 $$$T2 = 000004
B.FSAZ
           000100
                             010 FD.LEN
           000000
000574
000122
 . ABS:
                            000
                            001
SROOFE
FDSCOP
           000010
                            003
           000012
SUSDEE
                            004
DHROFF
                            005
                           006
007
SITTORE
           999944
OSPLOF
BSTOFF
           000014
                                                                                                                                  010
011
           000772
                                                                                                                                                          1946年 147 · 编件格
FNOFFS
           000044
                                                                                                                                                                               75
                                                                                                                                                                                   The second
                                                 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

STATUS M 0 M1110 27+MAR-80 13:37 PAGE 12-3 SYMBOL TALL CIA-RDP85-00514R000100030001-3

WNODOF · 000010 012 DNODOF · 000010 013 ERRURS · DETECTED: 0

VIRTUAL MEMORY USED: 3504 WORDS (.14 PAGES)
DYNAMIC MEMORY: 4916 WORDS (.18 PAGES)
ELAPSED TIME: 00:00:23
STATUS,STATUS/-SP=[20,1]P,M,STATUS

THE PLETTER STATE

BATCH M 0 M1110 27-MAR-80 13:37
TABLE OF TENTS Approved For Release 2005/07/29 CIA-RDP85-00514R000100030001-3

10-2. DISPLAY-BATCH-STATUS-

Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

```
27-MAR-80 13:37 PAGE 11
Approved For Release 2005/07/28 CIA-RDP85-00514R000100030001-3
BATCH: MOO:M1110
DISPLAY:BOH:STATUS
       DATA
                                                             ;
RCVDAT: .BLKW-
RCVCMD: .BLKW-
RCVCHR: .BLKW-
RCVPRM: .BLKB-
            000000
                                                                                                  :RECEIVE : PACKET :
;COMMAND : CODE :
;** OF : PARAMETER : CHARACTERS
;PARAMETER : TEXT :
            000004
000006
            000010
            000036
                                                             ÍOSTAT: .BLKW
SAVESP: .BLKW
            000042
                                                              : TABLE HEADING
            000044
                        000043
                                                                          .WORD
                                                                                    MSG1L
       30
            000046
000051
                             102
                                                      124
                                                             MSG1T:
                                                                         .ASCII. /BATCH: STATE:
                                                                                                                                  QUERIES/
                                         110
123
124
040
040
                                                     040
124
105
040
            000054
000057
                             101
            000062
000065
                                                     040
040
                             040
            000070
000073
                             040
                                         040
040
121
122
                             949
                                                     040
040
            000076
000101
                             040
                                                      125
111
                             949
            000104
000107
                             105
       31
32
33
34
35
36
37
38
39
                                                             MSG1L=.-MSG1T
.EVEN
                        000043
                                                                BATCH STATUS LINE SKELETON
           000112
000113
000115
000120
                                                             ŚKELTH: .ASCII-
                                                                         .BLKB
                                         040
                                                                         .ASCII
                            040
      .o∟KB 20.
-SKELTN
.ASC⊺7
           000121
                                                             STATE:
                                                                         .BLKB
                        000033
           000145
000147
                                                             .ASCII.
NQR: .BLKB.
SKLNGT=:-SKELTN.
                        000040
                                                                          .EVEN
                                                                                                                                                        EFFT)
                                                                BATCH · STATE · MESSAGE · TABLES ·
                                                                INDEX-BATCH-STATE-TO-MESSAGE INDEX-
BYTE-0 - INDEX-
BYTE-1 - BIT0: HAS-BATCH-STATE-STATUS INFORMATION-
BIT1: NEEDS-*-OF-QUERIES-
           000152
000154
000156
                                                   000
                                        000
                            002
                                        003
                            006
                                        882
           000160
                            010
```

```
BATCH-
            MACRO M1110 27-MAR-80 13:37
                                                            PEGE: 11-1
DISPLAY BATCH STATUS
                                                      Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       60 000162-61
62-63
64 000164
65 000166
66 000170
                              012
                                           001
                                                                             .BYTE - 10..BIT0
                                                                                                                   :BS.DBU
                                                                   STATE · MESSAGE · INDEX · TABLE
           000164
000166
000170
000172
000174
000176
                         0002021
0002131
0002271
0002461
                                                                BSTINX:
                                                                            .WORD
                                                                             .WORD
.WORD
                                                                                         BS2
BS3
        67
68
                                                                                         BS4
BS5
                                                                             .WORD
                                                                             .WORD
                         0002551
                         000264'
000311'
        69
70
71
72
73
                                                                                         BS6
            000200
                                                                             .WORD
                                                                   STATE · MESSAGES
            000202
000205
000210
000213
        74
                               111
                                                        101
111
                                                                BS1:
                                                                             .ASCIZ: /INACTIVE/
                                           116
124
105
120
057
124
105
120
                              103
126
117
                                                        000
105
                                                                BS2:
                                                                             .ASCIZ: *OPEN/ACTIVE*
                              116
103
126
117
116
122
123
124
103
123
000
                                                        101
             000216
             000221
             000224
                                                        000
105
            000227
000232
        76
                                                                BS3:
                                                                             .ASCIZ: *OPEN/TRANSLATE*
                                           057
101
114
                                                        124
116
             000235
000240
                                                        101
            000243
000246
                                            105
                                                                BS4:
                                            114
                                                        117
                                                                             .ASCIZ- /CLOSED/
            000251
000254
                                                        104
            000255
000260
                              123
        78
                                            i 05
                                                        101
                                                                BS5:
                                                                             .ASCIZ. /SEARCH/
                                            103
                                                        110
            000263
000264
000267
000272
                              000
                                                        124
102
        79
                                            101
                                                                BS6:
                                                                             .ASCIZ: *DATA:BASE/CONTINUOUS*
                              101
                                           040
123
                                                        105
                              057
116
116
125
                                           103
124
125
123
            000275
000300
                                                        117
                                                        111
117
             000303
             000306
                                                        000
                              104
101
101
        80
            000311
000314
                                            101
                                                        124
102
                                                                             .ASCIZ: *DATA:BASE/MASS*
                                           040
123
115
            000317
000322
                                                        105
                              957
                                                        101
            000325
                               123
        81
       82 · 000330
000333
000336
000341
                                           040
040
040
040
                              040
040
                                                        040
                                                                BLANKS: ASCII /
                                                                                                                           Z: ;BLANK:FILL
                                                        040
040
                              040
040
                                                        040
                              040
040
                                           040
040
                                                        040
040
            000344
            000352
                              949
                                           040
       83
84
                                                                             .EVEN
```

```
BATCH: MOD: M1110 27-MAR-80 13:37 PAGE: 12:
DISPLAY: BOH: STATUS Approved For
                                                                                  Approved For Release 2005/07/28 CIA-RDP85-00514R000100030001-3
                   000354
                                                                                                  START:
            88
                  000354
                                     010667
                                                                                                                     MOV
                                                                                                                                         SPISAVESP
                                                                                                                                                                                                    :SAVE · IDLE TASK · STACK · POINTER
            89
                  000360
000364
000372
            98
                                      016706
                                                                                                  ŔSTART: MOV
                                                                                                                                         SAVESP, SP
                                                                                                                                                                                                     :RESTORE - STACK
                                                                                                                     RCVX$C
                                                                                                                                          RCVDAT
            92
                                       103003
            93
94
                   000374
                                                                                                                     EXIT$S
                   000402
000406
            95
                                      012700
                                                          000044
                                                                                                  15:
                                                                                                                     MOV
                                                                                                                                         #MSG1,R0
(R0)+,R1
                                                                                                                                                                                                    :PUT-OUT-TABLE-HEADER
            96
                                      012001
            97
                   000410
                                                                                                                     CALL
                                                                                                                                         TIOUT
            98
                                                                                                  OUTPUT STATUS LINE FOR EACH BATCH
          100
                  000414
                                      005004
                                                                                                                     CLR
                                                                                                                                                                                                    :BATCH-0
          101
                                                                                                      NEXT BATCH
                   888416
                                       016405
                                                                                                                     MOV.
          102
                                                           000000G
                                                                                                  HXTBTC:
                                                                                                                                         BSTPTR(R4),R5
                                                                                                                                                                                                    ;BST-ADDRESS
           103
                   000422
                                       010401
                                                                                                                                                                                                    : MOVE - ASCII - BATCH - NUMBER -
: TO - MESSAGE - WITH - LEADING - ZERO
                                                                                                                                        R4,R1
R0
                                                                                                                     CLR
          104
                   000424
                                       005000
                   000426
                                      071027
062701
          105
                                                                                                                                         #10..R0
                                                          000060
177452
          106
                   000432
                                                                                                                      ADD
                                                                                                                                         #'0.R1
                   000436
                                       110167
                                                                                                                     MOVB
                                                                                                                                         R1.BNO+1
          108
                  000442
                                                                                                                     ADD.
                                                                                                                                         #10.R0
R0.BNO
                                       062700
                                                           ийийийи.
          i 09
                  000446
                                       110067
                                                                                                                      MOVB
                                                                                                  ; BUILD-BATCH-STATE-MESSAGE
MOVB- B.STTE(R5),R0
          110
                   000452
000456
                                        116500
                                                           000053
                                                                                                                                                                                                    ;BATCH·STATE·
;INDEX·
                                       060000
                                                                                                                                        RØ.RØ
BSIXIX(RØ).R1
         112
                                                                                                                     ADD
                                       116001
132760
                   000460
                                                          0001521
                                                                                                                      MOVB
                                                                                                                                                                                                    :MESSAGE - INDEX
                   000464
                                                          000001 000153
                                                                                                                     BITB
                                                                                                                                         #BIT0,BSIXIX+1(R0)
                                                                                                                                                                                                    :BRANCH IF NO SUB STATE FLAGS
                                      001406
032765
         115
                  000472
          116
                   000474
                                                          000001
                                                                             000054
                                                                                                                                         #BIT0,B.BSTA(R5)
                                                                                                                     BIT
                                                                                                                                                                                                    :PLUS-2-IF SUBSTATE-SHOWS-OTHER_STATUS-
         117
                   000502
                                       001402
          118
                  000504
                                                                                                                                         #2,R1
                                                                                                                     ADD
                                                          000164'
000121'
          119
                  000510
                                       016101
                                                                                                                     MOV
                                                                                                                                                                                                    :ADDRESS-OF-TEXT
                   000514
                                       012702
                                                                                                                                         #STATE,R2
#20.,R3
(R1)+,(R2)+
                                                                                                                     MOV
                                                                                                                                                                                                    ;PLACE · IN · MESSAGE · ;FIELD · WIDTH ·
          121
                  000520
                                      012703
112122
                                                          000024
                                                                                                                      MOV
         122
123
                   000524
                                                                                                  STATXT:
                                                                                                                                                                                                   *TECD.WIDTH
*TEXT.CHAR
*NOT.END.OF.TEXT.
*RECOVER.BLANK.
*BLANK.FILL.REST.
                                                                                                                     MOVB
                                                                                                                                        1$
#* -1(R2)
                  000526
                                                                                                                     BHE -
MOVB
                                       001005
                  000530
000536
                                      112762
012701
                                                          000040
0003301
          124
                                                                            177777
                                                                                                                                        #BLANKS, R1
R3, STATXT
                                                                                                                     MOV
          126
                  000542
                                      077310
                                                                                                                     SOB
                                                                                                  ; PUT·IN·# OF
          127
                                                                                                                                   QUERÍES
#SKLSHT,R1
         128 · 000544
129 000550
                                       012701
                                                           000033
                                                                                                  HMBQTX: MOV
                                                                                                                                                                                                   ;ASSUME:NO QUERY:#:
;BRANCH:IF SO:
                                                                                                                                                                                                                                                                                 THE PARTY OF THE P
                                       132760
                                                          000002 000153
                                                                                                                     BITB
                                                                                                                                         #BIT1.BSIXIX+1(R0)
          130
                  000556
                                       001424
                                                                                                                                        2$
#', NQR
#', NQR+1
                                                                                                                     BEQ.
                                                           000040
          131
                  000560
                                       112767
                                                                              177361
                                                                                                                     MOVB
                                                                                                                                                                                                    ; INIT-HIGH ORDER-BLANKS
         132
133
                   000566
                                      112767
                                                           000040
                                                                                                                     MOVB
                  000574
                                                          000152
                                                                                                                     MOV
                                                                                                                                         #HQR+3,R2
                                                                                                                                                                                                    ;START-A-LOW-ORDER-
          134
                  000600
                                       016501
                                                                                                                     MOV
                                                                                                                                        B.NORY(R5), R1
                                                                                                                                                                                                    : # · OF · QUERIES ·
; SPLIT · OFF LOW · ORDER DECADE
         135
136
137
                  000604
                                      005000
                                                                                                                                        R0
#10..R0
                                                                                                  1$:
                                                                                                                     CLR
                  000606
000612
                                      071027
062701
                                                           000012
                                                                                                                                                                                                    ;MAKE·IT·ASCII
;INTO·MESSAGE·
                                                          ининен и
                                                                                                                     ADD
                                                                                                                                        #'0.R1
R1.-(R2)
                  000616
000620
         138
                                       110142
                                                                                                                      MOVB
         139
                                      010001
                                                                                                                     MOV
                                                                                                                                        R0.R1
                                                                                                                                                                                                    CONTINUE TILL ZERO
         140
                  000622
000624
                                      001370
                                                                                                                     BNE
                                                                                                                                         1$
                                                                                  #SKLNGT.R1 :FULL LENGTH-OF. T
2$: MOV #SKELTN.R0 :TEXT-START
Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
                                      012701
                                                          000040
                  000630
                                      012700
                                                          0001121
```

BATCH: MACRO:M1110 27-MAR-80 13:37 PAGE:12-1 DISPLAY:BATCH:STATUS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3

```
BATCH: M
DISPLAY:B
                   0-M1110 27-MAR-80 13:37 PAGE-13
H-STATUS Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      151
152-
153
154
155
156
157 000656
159 000736
160 000736
161 000736
161 000740
162-
163 000740
165 000740
166
                                                                    OUTPUT-A BATCH-STATUS-LINE
                                                                    INPUT-- R0: DATA-START-ADDRESS-
R1: LENGTH OF-TEXT-
                                                                 TIOUT: QIOW$S.
CMPB.
BNE.
RTN.
                                                                                           #IO:ULB,#TILUN,#TIEF,,#IOSTAT,,<R0,R1,#40>
#IS:SUC,IOSTAT
PRCERR
                          122767
001001
                                       000000G-177102
                                                                                                                                       THE STATE OF THE STATE OF THE
                                                                    ERROR -
                                                                :
PRCERR:
                          000167
                                      177414
                                                                              JMP.
                                                                                           RSTART.
                          0003541
                                                                              .END
                                                                                           START-
```

```
BATCH
           riACRO-M1110 27-MAR+80 13:37 PAGE-13-
SYMBOL TABLE
                                                Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
BITVAL = - 000000
                                                              010 FN.DBR
010 FN.DBS
                                  B.FEMC
                                             000152
                                                                               000026
                                                                                                011 RCVPRM-
                                                                                                                 000010R
                                                                                                                                                                    006
                                                                                                                                        ST.QSZ
                                                                                                                                                   000034
BITØ
           000001
                                                                                                                                        ST.SCH
ST.UHL
ST.XLT
                                                                                                                 000360R
000006
                                                                               000022
                                                                                                911
                                                                                                      RSTART.
                                                                                                                                                   000040
                                                                                                                                                                BITI
                                                                   FH.DHR
FH.EMA
           000002
                                  B.FESB
                                             000212
                                                              010
                                                                                000040
                                                                                                011
                                                                                                      R.VXBA=
                                                                                                                                                   0000004
BIT10
BIT11
            ดดวดดด
                                  B.FFSC
                                                              010
                                              000222
                                                                               000012
                                                                                                011
                                                                                                      R: VXTN= : 000002
                                                                                                                                                   000014
                                                                                                                                                                    886
            004000
                                  B. FMHR
                                              000172
                                                              010
010
                                                                   FH.EMB
FH.EMC
                                                                                000014
                                                                                                                 000042R
                                                                                                                                        SU.DBU= 000004
SU.DON= 000006
BIT12
BIT13
            010000
                                  B.FQLS
                                                                                                                                        SU.DDN=.
SU.IDL=.
SU.LOD=
                                                                                000016
                                                                                                911
                                                                                                      SKELTH
                                                                                                                 999112R
            020000
                                                                   FN.FSA
FN.FSB
                                  B.ESAZ
                                             000100
                                                              010
                                                                                ававава
                                                                                                      SKLNGT:
                                                                                                                 000040
                                                                                                                                                   000000
BIT14
            040000
                                  B.FSBZ
                                                              010
                                                                                                     SKLSHT=-
SR.ARE-
SR.ARS-
SR.DAY-
SR.DLT-
SR.ECB-
                                                                                000002
                                                                                                011
                                                                                                                 000033
                                                                                                                                                   000001
BIT15
            100000
                                  B.FSC2
                                                                   FM.FSC
FM.LGQ
                                              000104
                                                              010
                                                                                000004
                                                                                                 011
                                                                                                                 000114
                                                                                                                                  992
                                                                                                                                       SU.SRC=
SU.SRR=
SU.XPD=
                                                                                                                                                   ававая
BIT2
            папапад
                                  B.HBLK
                                                              010
                                                                                000034
                                                                                                                                  002
002
                                                                                                Ñ11
                                                                                                                 000106
            000010
                                                                   FH.LGU
FH.MFO
                                                                                                011
011
                                  B. HDOC
                                              000114
                                                              010
                                                                                000036
                                                                                                                  000010
                                                                                                                                                   ийийияз
BIT4
            аваара
                                  B.HRLP
                                                              010
                                              000126
                                                                                000024
                                                                                                                                  002 · S. HRL · = 002 · TIEF =
                                                                                                                 000014
                                  B: HRLR
                                                                   FH.MHR
FH.NMB
                                              000122
                                                              ЙIЙ
                                                                                000010
                                                                                                011
                                                                                                                  000047
                                                                                                                                                   000001
                                  B.HRLW
B.HMBR
BITE
            000100
                                              000124
                                                              010
                                                                                000044
                                                                                                011 SR.ECH
                                                                                                                 000046
                                                                                                                                  002
002
                                                                                                                                       TILUM.
                                                                                                     SR.ECH
SR.ECL
SR.FIB
SR.GRE
SR.LEN
SR.LEN
SR.LIN
SR.LIP
SR.MOC
            000200
                                              000052
                                                              010 FH.QLS
010 FH.QRY
                                                                                равава
                                                                                                011
                                                                                                                  000050
                                                                                                                                                   000656R
BITS
            000400
                                  B:NQRY
B:QLSZ
                                              000232
                                                                                000020
                                                                                                                                  002-WN.NTP
002-WN.NXT
002-WN.ROT
002-WN.SIZ
                                                                                                011
                                                                                                                                                                    012
012
012
012
                                                                                                                 000012
                                                                                                                                                   000004
            001000
                                                                   FN.SF0
FN.SF1
                                                                               000030
000032
                                              000106
                                                              010
                                                                                                011
                                                                                                                  000100
                                                                                                                                                   000006
                                  B.QMAF
B.QSPL
BLANKS
            BBB33BR
                                              000234
                                                               010
                                                                                                011
                                                                                                                 000072
                                                                                                                                                   000002
BNO.
BSIXIX
            000113R
                                              000316
                                                              010 FN.SHD
                                                                               000042
                                                                                                                  000122
                                                                                                                                                   000010
                                                                   | 105TAT | 000036R | 10.WLB= ********** GX | IS.SUC= ******** GX | M | = 000062
                                                              010
010
            000152R
                                  B.OTTM
                                              000076
                                                                                                                                       ·WN.SRC
·WN.TYP
                                                                                                                                                   000000
                                                                                                                                                                    012
012
                                                                                                                 000066
                                                                                                                                  992
BSTINX
BSTPTR
            000164R
                                  B.QUQP
                                              000056
                                                                                                                                  002 WN.TYP -
                                                                                                                  000062
                                                              010
010
            жжжжжж 🔓
                                  BASEDB
                                              аааа та
                                                                                                                  000000
                                                                                                                                                   природа
BS.CLS=
            0000002
                                    SIZE
                                                                                                      SRINDO
                                                                                                                 000042
                                                                                                                                  002 WORD1
                                                                                                                                                   000002
85.DBU=
            000004
                                                                   MSG4
                                  B:SNDF
                                                                               000044R
000043
                                              000012
                                                              ดาด
                                                                                                      SR. NDS
                                                                                                                  000036
                                                                                                                                                   000004
                                                                                                                                  002-WORD2
BS.INA=
           000000
                                  B.SSQ
                                                                   MSG1L.
                                                              010
                                                                                                      SR.NIN
                                                                                                                 000030
                                                                                                                                  002 WORD3 = 000006
002 WORD4 = 000010
BS.OPH=
            000001
                                  B.SSQF
                                             000050
                                                              010
010
                                                                   MSG1T.
                                                                               000046R
                                                                                                      SR.HIP
                                                                                                                                 000022
BS.SRC= 000003
                                  B.STAT
                                                                               000002
                                                                                                      SR.SDB
SR.SRC
                                                                                                                 000032
BS1
            000202R
                                                                   NMBQTX
                                  BASTIE
                                             000053
                                                              010
                                                                               000544R
                                                                                                                 000002
            000213R
                                  B.UDOC
                                             000110
                                                                    NOR:
                                                              010
                                                                               000147R
                                                                                                      SR.SUN
SR.TWS
                                                                                                                 000000
000056
                                                                    HXTBTC
N.BFAC=
            000227R
                                                                               000416R
000004
                                  CF:80
                                             000070
                                                                                                                                  002 - WORD8
002 - WORD9
884
            000246R
                                  CF.B2
                                                                                                      SR JUST
                                                                                                                 000052
            000255R
                                  CF:B4
                                                                    N.BHGH= 000006
N.BTCH= 000004
                                             природе
                                                                                                      SR.YR
                                                                                                                 000002
                                                                                                                                  002 · WRDVAL = 000024;
002 · XBATCH = 000013
002 · XDBLOA = 000004
BSS
            000264R
                                  CF.B6
                                                                                                      SR.1IH
SR.1IP
                                                                                                                 000024
            000311R
                                  CF.DR0=
CF.DR1=
DBSLEN=
                                                                    N.BUFB= 004000
N.BUFW= 002000
                                             000064
                                                                                                                 000016
           900000
BYTE0
                                                                                                      SS.FID
                                                                                                                 000002
                                                                                                                                  004
                                                                                                                                        XDBPR0=.000012
            000001
BYTE1
                                             000116
                                                                   N.FOS-=-000764
N.PKSZ=-000020
                                                                                                      SS.FNB
                                                                                                                 000010
                                                                                                                                  004
                                                                                                                                        XDMCIN= 000006
XFOSMR= 00000Z
                                  DH.BF0
DH.BF1
BYTE2
           000002
                                             000002
                                                                                                      SS.FVR
                                                                                                                 0000006
                                                                                                                                  004
004
BYTE3
            000003
                                                                   M.PKTS=
M.QURY=
                                             0000004
                                                              005
                                                                               000043
                                                                                                      SS.LEN
                                                                                                                 000012
                                                                                                                                       XGTSRE=
                                                                                                                                                   000014
000011
BYTE4
BYTE5
            000004
                                                              005
                                                                               000031
                                                                                                      SS.STT
START
                                                                                                                 000000
                                                                                                                                        XHITSK=
            000005
                                  DH: DMC
                                             000010
                                                              005
                                                                   H.SUNT=-
PRCERR
                                                                               000002
                                                                                                                 000354R
                                                                                                                                        XHLMER = . 000002
BYTE6
BYTE7
                                  DH.FLG
DH.DCK
            000006
                                                              005
                                                                               000740R
                                                                                                      STATE
                                                                                                                 000121R
            000007
                                                              013 QE.RO1=
013 Q.FDSC
                                             ававава
                                                                               000144
                                                                                                      STATXT
                                                                                                                 000524R
                                                                                                                                        XMSCHE = - 000000
BYTES
           999919
                                  DH.HTP
                                                                               000004
                                                                                                997
                                                                                                     ST.ASZ
ST.BSZ
                                                                                                                                              = · 0000003
= · 0000001
                                                                                                                 000020
                                                                                                                                  006
                                                                                                                                        XQTS
BYTE9
            000011
                                  DH: HXT
                                             РИРИРИ
                                                              013
013
                                                                   Q.HQBK
Q.HUHL
                                                                               000000
                                                                                                                 000024
                                                                                                                                  006
                                                                                                                                       XQT9
BYTVAL
            000012
                                             000002
                                                                                                                                       XSULOA= 000005
$$$ = 000000R
                                                                               000002
                                                                                                007
                                                                                                      ST.RTC
                                                                                                                 000000
                                                                                                                                  006
B.BSTA
                            010 DN.SIZ
            000054
                                             000010
                                                              013 Q.SIZE
003 RCVCHR
                                                                               000014
                                                                                                                 000030
                                                                                                                                  006 $$$
                                                                                                                                                                    014
B.CHTX
           000046
000060
                            010
                                 FD.FID
FD.FNB
                                              999999
                                                                                                                                  006 $$$ = 00000
006 $$$ARG= 000002
006 $$$OST= 000010
006 $$$T1 = 000000
                                                                                                      ST. HRL
                                                                                                                 000010
000044
                                                                               000006R
B.CQUQ
                            010
                                             ававая
                                                              003
003
                                                                   RCVCMD
RCVDAT
                                                                               9999945
           000132
000142
                            010 FD.FVR
010 FD.LEN
B. FEMA
                                                                               000000R
                                                                                                      ST.QRY
                                                                                                                 000002
                                             000010
                                                              993
  ABS:
            000000
                           000
                          001
002
003
           000744
SRCOFF
           000122
                                                                                                                                                       FDSCOF
           000010
                                                                                                                                                                     Zu Zawa.
                                                                                                                                                                        , s,
DHROFF
           000012
                                                Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
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BATCH M D M1110 27-MAR-80 13:37 PAGE 13-2 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

STIDEF 000044 006
OSPLOF 000014 007
BSTOFF 00072 010
FNOFFS 000044 011
WNODDF 000010 012
DNODDF 000010 013
$DPB$$ 000010 014
ERRORS DETECTED: 0

VIRTUAL MEMORY USED: 3639 WORDS (15 FAGES)
DYNAMIC MEMORY: 4916 WORDS (18 PAGES)
ELAPSED TIME: 00:00:23
BATCH BATCH SP = [20:1] P M BATCH
```

A see Asser 1

W.

DBSTAT: M 0.M1110 27-MAR-80 13:38 Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3

10-2. DISPLAY.DATA.BASE.STATISTICS. DBSTAT: MACRO:M1110 27-MAR-80 13:38 PAGE: 10 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3 1 2 3 4 5 6 7 8 9 10 11 12 13 .FITLE- DBSTAT. .SBTTL- DISPLAY-DATA-BASE-STATISTICS-.MCALL RCVX\$C.EXIT\$S.QIOW\$S .GLOBL SRECPT, \$DAT, \$CBTA, \$CDDMG ; TILUN=5 TIEF=1 000005 000001

```
0-M1110 27-MAR-80 13:38 PAGE-11
BASE-STATISTICS Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
DBSTAT M
DISPLAY D
       15
16
17
18
19
                                                               DATA:
                                                            RCVDAT: .BLKW-
RCVCMD: .BLKW-
RCVCHR: .BLKW-
RCVPRM: .BLKB-
           ававав
                                                                                                 ;RECEIVE - PACKET -
;COMMAND - CODE -
;*- OF - PARAMETER - CHARACTERS
;PARAMETER - TEXT -
                                                                                     2.
           0000004
       20 000006
21 000010
22 2
23 000036
24 000042
                                                             ;
IOSTAT:
                                                                        .BLKW
                                                             SAVESP:
       000044
                                                             ĆNTV:
                                                                          .BLKW
                                                                                                 : NUMBER - TO - BE - CONVERTED -
                                                               MESSAGE - SKELETONS -
           000050
                                                             LINEO:
           000050
                             040
                                         040
                                                                          ASCII.
                        000002
                                                             LO=.-LINEO
            000052
                                                             LINE1:
           000052
000055
000057
000061
                             125
124
                                                                         .ASCII. /UNIT:/-
                                         072
       38
39
                                                                         .BLKB
                                                             UNB:
                             040
                                         040
                                                     040
                                                                          .ASCII-
                                                                                           INIT:/
                             111
124
                                        116
072
            000064
                                                     111
            000067
       40
           000071
                                                             DAT:
                                        040
040
123
           000102
000105
                             040
                                                     040
                                                                         .ASCII
                                                                                           % · DISK · FULL: / ·
                                                     104
113
125
072
                            045
111
           000110
                            049
                                         186
                             114
                                         114
       42
43
44
45
46
                                                            PFL: .BI
L1=.-LINE1
           000121
                                                                          BLKB.
                        000052
           000124
000124
000127
                                                             _INE2:
                                                    117
123
124
055
101
       47
                                         040
                                                                         .ASCII: /#:OF:SECTOR- DATA:/:
                            106
105
117
                                        040
103
122
           000132
000135
           000140
                            124
                                         101
                                                     072
                                                                        .BLKB: 9.
.ASCII: /: WS:PAST:EOC:/
           000146
000157
                                                            DSC:
                                                     127
120
124
117
                            040
                                        949
           000162
000165
                            123
                                        040
123
          000165
000170
000173
000175
000206
                            040
                            103
                                        072
                                                            WSE:
                                                                        .BLKB: 9.
.ASCII: /: TOTAL:WS:/:
                                        040
124
040
072
                            040
                                                     124
                            117
114
123
                                                    101
           000214
      52.000221
                                                                        .BLKB
                                                            UST:
                                                                                    9.
```

```
DBSTAT MACRO M1110 27+MAR-80 13:38 PAGE 11-1
DISPLAY DATA BASE STATISTICS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
        53
54
55
                         000106
                                                               L2=.-LINE2
        Ŝ6
            000232
        57
            000232
                                                       117
104
055
116
072
                              043
                                           040
                                                                            .ASCII. /#.OF.DOC- INIT:/
            000235
000240
000243
                              106
117
                                           040
103
                              040
             000246
                              111
                                           124
            000251
000251
000262
000270
        58
                                                               NDI:
                                                                            .BLKB
                                                                                        9.
                              640
                                           040
                                                       040
                                                                            .ASCII-
                                                                                               ID-RANGE:/
                              111
122
107
                                           104
101
                                                       040
116
            000273
000276
                                           105
                                                       072
                                                                                        9.
/+/
9.
        60
61
62
63
64
65
                                                               LID:
                                                                            .BLKB.
.ASCII.
             000307
                              055
                                                               HID:
             000310
                                                                             .BLKB
                         000067
            000321
000321
                                                               LINE4:
                              040
040
                                           040
040
103
122
                                                       040
040
125
105
        67
                                                                            .ASCII· /
                                                                                                     CURRENT: /-
            000324
000327
                              040
             000332
             000335
                              116
                                           124
                                                       072
        68
            000340
                                                               NDC:
                                                                            . BLKB
                                                                                        9.
            000351
000354
                              040
                                           040
104
                                                       040
040
        69
                                                                            .ASCII
                                                                                               ID-RANGE:/
                              111
122
107
             000357
                                           101
             000362
                                           105
                                                       972
                                                                                        9.
/-/-
9.
       70
71
73
74
75
77
77
78
81
83
84
            000365
                                                               LCD:
                                                                            .BLKB
            000376
                              055
                                                               ASCII:
HCD: BLKB:
L4=:-LINE4
            000377
                         000067
                                                                            .EVEN
                                                                  OUTPUT LINE INDEX TABLE
            000410
000412
                        000050°
000002
                                                               ο̂υΤΒL:∙
                                                                            .WORD
                                                                                        LINEØ
                                                                            .WORD.
                                                                                        LØ
LINE1
            000414
000416
                         0000524
                         000052
                                                                            .WORD
           000416
000420
000422
000424
000426
000430
000432
                                                                                        L1
LINE2
       85
86
87
88
89
90
91
93
94
95
                         000124
000106
                                                                            .WORD
.WORD
                                                                                        L2.
LINE3
                         000232
000067
                                                                            . WORD
                         000321
                                                                            .WORD
                                                                                        LINE4
                        000067
                                                                                        L4
                                                                            .WORD
                                                                                                                  :END.OF.TABLE
                                                                                                                                                               ; MESSAGE SKELETON PORTIONS TO BE BLANKED BLAKTB: "WORD: UNB.2.

Approved For Release 2005/07/2 CIA-RDP85-00514F
                                                                                                                                                                                                        36
           000436
                        000057' 000002
                                                                                                       CIA-RDP85-00514R000100030001-3
```

```
DBSTAT: M 0: M1110 27-MAR-80 13:38 PAGE: 11-2: DISPLAY: D : BASE: STATISTICS: Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                                                                                               DAT.9.
PFL.3
DSC.9.
WSE.9.
WST.9.
HDI.9.
LID.9.
HID.9.
HDD.9.
LCD.9.
HCD.9.
            96 000442
97 000446
98 000452
99 000456
                                         000071'
000121'
000146'
000175'
000221'
000276'
                                                                                                                            .WORD
                                                              0000011
000011
                                                                                                                           .WORD .
.WORD .
.WORD .
.WORD .
          99 000456
101 000466
101 000476
102 000472
103 000476
104 000502
105 000506
106 000512
107 000516
108
                                                              000011
                                                              000011
                                                              000011
                                                                                                                            .WORD
.WORD
.WORD
                                         000251
000276*
000310*
000340*
000365*
000377*
                                                              000011
                                                              000011
                                                              000011
000011
                                                                                                                            .WORD
                                                                                                                            .WORD
                                                              000011
                                                                                                                                                                    :END.OF.TABLE
```

```
DBSTAT: MACRO:M1110 27-MAR-00 13:38 PAGE:12.
DISPLAY: DATA: BASE: STATISTICS: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
          111
112
113
114
                    000520
                                                                                                        START:
                    000520
                                         010667
                                                                                                                            MOV
                                                                                                                                                SP.SAVESP
                                                                                                                                                                                                               ;SAVE · IDLE TASK · STACK · POINTER
          115 000524
                                         016706
                                                                                                        RSTART: MOV-
                                                                                                                                                SAVESP, SP
                                                                                                                                                                                                              ;RESTORE·STACK·
;TRY·FOR·PACKET
          116
                    000530
                                                                                                                            RCVX$C+
BCC+
                                                                                                                                                .RCVDAT
                                          103003
                     000536
           118
                    000540
                                                                                                                            EXIT$S
           119
          120
121
                    000546
                                         005004
                                                                                                        1$:
                                                                                                                            GLR
                                                                                                                                                R4
                                                                                                                                                                                                              :SREC : INDEX
                                                                                                          NEXT-STATUS-RECORD
XTSRC: MOV SRECPT(R4),R5
           123 000550
                                         016405
                                                             000000G
                                                                                                                                                                                                              ;SREC-ADDRESS
                                                                                                       * BLANK PORTIONS OF MESSAGE SKELETON MOV #BLNKTB, R3
                    000554
                                         012703
012301
                                                                                                                                                                                                              :TABLE-OF-AREA-POINTERS-
:ADDRESS-OF-AREA-TO-BE-BLANKED-
:DONE-WITH BLANKING-
:LENGTH-OF-AREA-
           125
                                                              0004361
                     000560
                                                                                                        15:
                                                                                                                            MOV
                                                                                                                                                 (R3) + .R1
           127
                    000562
                                         001405
                                                                                                                            BEQ
                                                                                                                                                FRSTI N.
           128
                    000564
                                         012300
112721
077003
                                                                                                                                                (R3)+,R0
#* ,(R1)+
R0,2$
                                                                                                                            MOV
                    000566
000572
                                                             000040
                                                                                                                            MOVB.
            i 30
                                                                                                                            SOB-
           131
                   000574
                                         000771
                                                                                                                            BR
                                                                                                                                                 1 $
                                                                                                                                                                                                              ;DO:NEXT:AREA
          133
                                                                                                           FIRST-LINE
                                         010401
                                                                                                                                                R4.R1
R1
                                                                                                       FRSTLH: MOV
                                                                                                                                                                                                              ;STATUS RECORD NUMBER
           135
                    000600
                                         00620:
                                                                                                                            ASR
                     000602
                                         005000
           136
                                                                                                                            CLR
                                                                                                                                                RØ.
                   000604
000610
000614
                                        071027
062701
                                                              000012
                                                                                                                            DIV
                                                                                                                                                #10..R0
                                                              000060
                                                                                                                            ADD
                                                                                                                                                 #10.R1
                                         110167
062700
                                                              177240
000060
           139
                                                                                                                            MOVB
                                                                                                                                                R1,UNB+1
            1.40
                     000620
                                                                                                                                               #10.R0
R0.UNB
                                                                                                                            ADD
           141
                    000624
                                         110067
                                                                                                                            MOVB
          142
143
                    000630
                                         010501
                                                                                                                                               R5,R1
#SR,YR,R1
#DAT,R0
$DAT
                                                                                                                            MOV
                                                                                                                                                                                                              :DATE - OF - INIT-
                   000632
                                        062701
012700
                                                              000004
                                                                                                                            ADD
          144
145
                    000636
                                                              000071
                                                                                                                            MOV
                    000642
           146
                    000646
                                          116500
                                                             000046
                                                                                                                                               SR.ECH(R5),R0
SR.ECL(R5),R1
                                                                                                                            MOVB
                                                                                                                                                                                                              ;CALCULATE #.OF.SECTORS
           147
                    000652
                                        016501
                                                             000050
                                                                                                                                                                                                                    USED FOR DATA
                   000656
000662
          148
                                          166501
                                                                                                                            SUB
                                                                                                                                                SR.SDB+2(R5),R1
          149
                                         005600
                   000062
000664
000670
000674
          150
151
                                          166500
                                                             000032
                                                                                                                                                SR.SDB(R5).R0
                                                                                                                            SUB
                                                              177150
177146
                                        010967
                                                                                                                            MOV
                                                                                                                                                RØ, CHTV
                                                                                                                                                                                                              ;SAVE·#·OF SECTORS·USED
          152
                                         010167
                                                                                                                            MOV
                                                                                                                                                R1, CNTV+2
          153
                                                                                                                           ASHC
MOV
                                                                                                                                               #-4,R0
R1,R0
                                                                                                                                                                                                             #SCALE *** OF *SECTORS * USED *
#SINGLE *PRECISION *
#PREPARE *FOR * % *
                                         073027
                   000704
000706
                                        010100
070027
          154
                                                             000144
                                                                                                                                                #100..R0
#7,R2
                                                                                                                            MUL
                   000712
000716
                                        012702
012703
                                                             000007
105000
          156
                                                                                                                            MOV
                                                                                                                                                                                                              :MAX # OF SECTORS ON DISK
                                                                                                                                                                                                                                                                                        157
                                                                                                                           MOV
                                                                                                                                                #105000.R3
                                                                                                                                                                                                                                                                                                                   15
                   000722
000726
                                        166503
005602
          158
                                                                                                                            SUB
                                                                                                                                                SR.SDB+2(R5),R3
                                                                                                                                                                                                              :CALCULATE MAX. #.OF
                                                                                                                                               R2
SR.SDB(R5).R2
                                                                                                                            SBC
                                        166502
073227
071003
005701
                                                                                                                                                                                                              : USABLE SECTORS -
                   000730
000734
          169
                                                                                                                            SUB
          161
                                                                                                                           ASHC
DIV:
TST:
                                                             1777774
                                                                                                                                               #-4.R2
R3.R0
                                                                                                                                                                                                              :SCALE - MAX # - OF - SECTORS
                   000740
000742
          162
                                                                                                                                                                                                              : X · HSED
                                                                                                                                               R1
1$
                                                                                                                                                                                                              : ROUND - UP
                  000744
         164
                                        001401
                                                                                                                           BEQ
                   600746
                                        005200
                                                                                                                           THE
                                                                                                                                                RØ
                                                                                                                                                                                                            THE RESERVE THE PARTY OF THE PA
                   000750
         166
                                        010001
                                                                                                                           MOV
                                                                                                                                               RØ.R1
                                                                                                                                                                                                             :CONVERTATO ASCIT
                   000752
                                        012700
                                                            0001211
                                                                                                                                                #PEL . RA
                                                                                                                           MOV
                                                                                                                                                                     CIA-RDP85-00514R000100030001-3
                                                                                      Approved For Release 2005/07/2
```

ţi

168 000756			MOV.	#10.!BIT9!BIT10!140	-00514R000100030001-3	
169 000762-	012102	011012	CALL.	\$CBTA	100,KZ	
170 171			; ; SECOND·LINE·			
172.000766	012700	000146*	MOV.	#DSC.RØ	;DATA·SECTORS·USED·	
173 000772-	012701	000044*	MOV.	#CNTV,R1	*DHIH-SECTORS-USED	
174 000776	005002		CLR -	R2·		TEST TEST
175 001000			CALL.	\$CDDMG.		
176 001004	012700	0001751	MOV.	#WSE,R0	;WS·AFTER·EOC·	
177 001010	016502	000052	MOV.	SR.WSL(R5).R2	CONVERT TO SECTOR COUNT	Γ
	016503 073227		MOV:	SR:WSL+2(R5),R3		man Project
	010267	177767 177014	ASHC · MOV ·	#-9R2		
		177014	MOV:	R2,CNTV. R3,CNTV+2.		
		000044	MOV:	#CNTV,R1		
	005002		CLR.	R2.		N. A.
184 001042-			CALL.	\$CDDMG.		
185 001046	012700	0002211	MOV:	#WST.R0	:TOTAL·WS·	
186 001052			MOV.	SR.TWS(R5),R2	:CONVERT TO SECTOR COUNT	r.
	016503		MOV.	SR.TWS+2(R5),R3		1
188 001062- 189 001066		177767 176752	ASHC ·	#-9R2		
190 001072		176750	MOV. MOV.	R2, CNTV		1
191 001076			MOV.	R3,CNTV+2. #CNTV,R1		± 4 ° .4.
192-001102-	005002		CLR.	R2.		- · · · · · · · · · · · · · · · · · · ·
193 001104			CALL.	\$CDDMG		
194			#			
195 196 001110	010700	0000512	; THIRD-LINE-			
	012700		MOV. MOV.	#NDI.R0 #SR:NDS.R1	:#.OF.DOC.AT.INIT.	
198 001120	012101	000000	CALL	DODBLC:		•
199 001124	012700	000276°	MOV:	#LID.RØ	:LOW-GIVEN DOC-#-	
200 001130	012701	000074	MOV.	#SR.GRS+2,R1	, 200 01 1211 DOC	
201 001134			CALL.	DODBLC.		
202·001140 203 001144	012700 012701	0003101	MOV. MOV.	#HID.RØ	;HIGH-GIVEN-DOC-#-	
203 001144 204 001150	012701	000102	MOV. CALL:	#SR.GRE+2.R1 DODBLC:		the state of the s
205			· ·	DODDEC.		THE SECOND CONTRACT OF SECOND
206			: FOURTH-LINE			fina in wife
		0003401	MOV.	#NDC.RØ	CURRENT * OF DOC	97 14. 4 1951 F. 1 12. 4 12. 4 1
208 001160	012701	000042	MOV.	#SR.NDC.R1		2 F
209 001164	0.40700	0007.551	CALL.	DODBLC.		
210 001170 211 001174	012700	000365"	MOV.	#LCD.R0	;LOW-CURRENT.DOC.#.	
211 001174 212:001200	012701	999119	MOV: CALL:	#SR.ARS+2,R1 DODBLC		engra.
	012700	000377*	MOV.	#HCD.R0	:HIGH-CURRENT-DOC-*-	
214 001210	012701		MOV.	#SR;ARE+2,R1	*IIIGH.COKKENI.DOC.#.	
215 001214			CALL	DODBLC.		war at the
216			\$			T STOR A F
217	010700	000 440	; OUTPUT DATA L	_INES		
218 001220 219 001224	012702	000410	MOV.	*OUTBL,R2	:TABLE · POINTER · :DATA · ADDRESS ·	
220 001224	001404		OUTLOP: MOV BEQ:	(R2)+,R0 1\$	DATA ADDRESS	
	012201		MOV.	(R2)+,R1	DATA LENGTH	- 2.B.d.
222-001232-			CALL	TIOUT	; OUTPUT ·	
223 001236 224	000772		BR	OUTLOP:	, , , , , , , , , , , , , , , , , , , ,	

DBSTAT: MACRO:Mi110 27+MAR-80 13:38 PAGE:12-2: DISPLAY:DATA:BASE:STATISTICS: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3 225 001240 062704 000002 226 001244 020427 000004 227 001250 103002 228 001252 000167 177272 229 230 001256 000167 177242 231 ADD CMP BHIS JMP #2,R4 R4,#M.SUNT*2 2\$ NXTSRC 1\$: : NEXT - SU - INDEX -: BRANCH - IF DONE ;DO:NEXT:SU: ; 2\$: ;

JMP.

RSTART-

. . .

; NEXT - PACKET -

```
DBSTAT: M
DISPLAY: D
                      0 M1110 27-MAR-80 13:38 PAGE 13
BASE STATISTICS Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
      233
234
235
236
237
238
239
240
001262
241
001266
243
001272
244
245
246
247
248
250
251
252
001374
253
001354
256
267
258
001356
260
001356
261
                                                                          DO-DOUBLE-PRECISION-CONVERSION-
                                                                          INPUT:- R0: OUTPUT DATA-ADDRESS.
R1: STATUS RECORD:INDEX.
R5: STATUS RECORD:ADDRESS
                                                                      DODBLC: ADD-
CLR-
CALL-
RTN-
                            060501
005002
                                                                                                   R5.R1
R2.
$CDDMG.
                                                                                                                                              :BINARY-DATA-ADDRESS
                                                                                                                                              ;CONVERT
                                                                          OUTPUT-A BATCH-STATUS-LINE
                                                                          INPUT - R0: DATA START ADDRESS R1: LENGTH OF TEXT
                                                                                    010WBS: #10.WLB;#TILUN,#TIEF;;#10STAT;;<R0,R1,#40>CMPB: #15.SUC;10STAT
BNE: PRCERR:
RTN:
                           122767
001001
                                          000000G-176464
                                                                         ERROR
                                                                      PRCERR:
                            000167
                                          177142
                                                                                    JMP
                                                                                                   RSTART:
                            0005201
                                                                                     .END
                                                                                                   START.
```

```
DBSTAT: MACRO:M1110 27-MAR-00 13:30 PAGE:13-1
                                             Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
BITVAL=:000000
                                B:HRLW
                                          000124
                                                          010 FH.MFO
                                                                          000024
                                                                                          011 RCVCMD
                                                                                                          000004P
                                                                                                                               SU.DBU=-000004
                                                          010 FH.MHR
010 FH.NMB
BITO

 - 0000001

                                B. HMBR
                                          000052
                                                                          000010
                                                                                               RCVDAT
                                                                                                          000000R
                                                                                                                               SH. DON= . AAAAA
BITI
          000002
                                B. HORY
                                          000232
                                                                                              RCVPRM
                                                                          000044
                                                                                          011
                                                                                                          999919R
                                                                                                                               SU.IDL= 000000
        - 002000
BIT10
                                B.QLSZ
                                          000106
                                                          MIM EN.DIS
                                                                          ававав
                                                                                               RSTART
                                                                                                                               SU.LOD= · AAAAA1
                                                          010 FH.QRY
010 FH.SF0
010 FH.SF1
BITII
          004000
                                B.QMAP
                                                                          000020
                                                                                              R. VXBA=
                                                                                                                               SU.SRC= 000002
SU.SRR= 000005
                                                                                          011
                                                                                                         ававаь
BIT12
          010000
                                                                                              R.VXTN=
SAVESP
                                B. OSPL
                                          000316
                                                                          000030
                                                                                          011
                                                                                                          000002
BIT13
          020000
                                B.QTTM
                                          000076
                                                                          000032
                                                                                          011
                                                                                                          000042R
                                                                                                                               SU.XPD=
S.HRL_=
                                                                                                                                         .000003.
.000240.
        = 040000
                                                                                              SRECPT=
SR.ARE
SR.ARS
SR.DAY
BIT14
                                B.QUQF
                                          000056
                                                          010 FH.SHD
                                                                          000042
                                                                                          011
          100000
                                                          010 FRSTLN
010 HCD
BIT15
                                B.SFDB
                                           000010
                                                                          000576R
                                                                                                                         002
002
                                                                                                                              TIEF
                                                                                                                                         000001...
                                                                                                          999114
BIT2-
                                B.SIZE
                                          000772
                                                                          000377R
                                                                                                          000106
                                                                                                                                         000005
BIT3
BIT4
          000010
                                B.SHDP
                                           000012
                                                          010 HID
                                                                                                          000010
                                                                                                                         992
                                                                                                                              TIOUT
                                                                                                                                         001274R
000057R
          000020
                                B:SSQ
                                                                                               SR.DLT
SR.ECB
                                                                                                                              UNB
WH.NTP
                                          000004
                                                          010 IOSTAT
                                                                          000036R
                                                                                                          000014
                                                                                                                          002
BIT5

    - 0000040

                                B.SSQF
                                          000050
                                                               IO.WLB=
                                                                          жжжжжж БХ
                                                                                                                                                         012
012
012
012
012
                                                                                                         000047
                                                                                                                         002
                                                                                                                                         999994
          000100
BIT6
                                B.STAT
                                          000044
                                                          010 IS.SUC = ******* GX
                                                                                               SR.ECH
SR.ECL
                                                                                                          000046
                                                                                                                               WH.HXT
                                                                                                                                         000006
BIT7
        - 000200
                               B.STTE
B.UDOC
                                          000053
                                                               LCD
                                                                          000365R
                                                                                                          000050
                                                                                                                         992
                                                                                                                              . WN. ROT
                                                                                                                                         000002
          000400
                                          000110
                                                          010 LID
                                                                          999276R
                                                                                               SR.FIB
                                                                                                          000012
                                                                                                                              WN.SIZ
                                                                                                                                         000010
                                CF.B0
CF.B2
                                          999979
BIT9
          001000
                                                                LINE0
                                                                          000050R
                                                                                               SR.GRE
                                                                                                                         002 WH.SRC
002 WH.TYP
002 WORD0
                                                                                                          000100
                                                                                                                                         равава
                                          000067
                                                               LINE 1
                                                                          000052R
                                                                                               SR.GRS
                                                                                                          000072
                                                                                                                                         000001
BS.CLS= 0000002
                                CF.B4
                                          000066
                                                               LINE2
                                                                          000124R
                                                                                               SR.LEN
                                                                                                          000122
                                                                                                                                         равава
BS.DBU- 000004
                                CF.B6
                                                               LINE3
                                                                          000232R
                                                                                                                         002 - WORD1
002 - WORD2
                                                                                                                                         000002
000004
                                                                                               SR.LIN
                                                                                                          природе
BS. INA=
                                                                                               SR.LIP
SR.MON
          000000
                                CF : DRM =
                                          999964
                                                               LINE4
                                                                          000321R
                                                                                                          000062
BS.OPH= 000001
BS.SRC= 000003
                                CF:DR1=
                                          000063
                                                                          000002
                                                                LØ
                                                                                                         0000006
                                                                                                                         002 · WORD3
                                                                                                                                         000006
                                          000044R
                                                               1. 1
                                                                          999952
                                                                                               SR.HDC
                                                                                                          000042
                                                                                                                              WORD4
                                                                                                                          002
                                                                                                                                                  2"
BYTE0 = BYTE1 =
          ававая
                                DAT:
                                          000071R
                                                                          000106
                                                                                               SR. NDS
                                                                                                                         002 - WORD5
002 - WORD6
002 - WORD7
                                                                                                         000036
                                                                                                                                         000012
                                                                                                                                         อยยย 12

ยยยย 14 - -

ยยยย 16
                                DBSLEN=
          000001
                                          000116
                                                               L3
                                                                          000067
                                                                                               SR:HIH
                                                                                                          000030
BYTE2
        - 0000002
                                DH.BF0
                                          000002
                                                          005
                                                                          000067
                                                                                               SR.HIP
                                                                                                                                                           2
                                                                                                         000022
                                                          005 M
005 N
BYTE3
          000003
                                                                                               SR.SDB
                                DH: BE 1
                                          999994
                                                                        = . 000062
                                                                                                          000032
                                                                                                                         002
                                                                                                                              WORD8
                                                                                                                                         000020
BYTE4
          000004
                                DH.CTL
                                          000000
                                                                         000002
                                                                                               SR.SRC
                                                                                                          0000002
                                                                                                                         002
                                                                                                                              WORD9
                                                                                                                                         000022
                                                          005 NDC 000349
005 NDC 000349
005 NDI 000251
013 NXTSRC 000559
013 N.BFAC=000004
013 N.BFCH=000006
BYTE5
          0000005
                                DH: DMC
                                          авав та
                                                                          000340R
000251R
                                                                                               SR.SUN
                                                                                                                         002
                                                                                                          000000
                                                                                                                              WRDVAL =
                                                                                                                                         000024
BYTE6
                                DH.FLG
                                          000006
                                                                                               SR. TWS
                                                                                                         000056
000052
                                                                                                                         คค2
                                                                                                                              · WSE
· WST
                                                                                                                                         000175R
BYTE7
          000007
                                DN DCK
                                          ававава
                                                                          000550R
                                                                                               SR.WSL
                                                                                                                         002
                                                                                                                                         999221R
BYTE8
                                DH: HTP
                                           000004
                                                                                               SR.YR.
SR.1IH
                                                                                                          0000004
                                                                                                                         002
                                                                                                                              XBATCH=
BYTE9
          000011
                                DH: HXT
                                          равава
                                                                                                          000024
                                                                                                                              XDBLOA= 000004
                                                                                                                         002
BYTVAL
                                DH.ROT
                                          000902
                                                                                               SR:11P
                                                                                                         000016
                                                                                                                         002
                                                                                                                              XDBPRO=
XDMC IN=
                                                                                                                                         000012
B.BSTA
          000054
                           010 DH:SIZ
                                          000010
                                                          013 N.BUFB=
N.BUFW=
                                                                          994999
                                                                                               SS.FID
                                                                                                                         004
                                                                                                                                         999996
B.CHTX
          000046
                           010
                               DODBLC
                                           001262R
                                                                          002000
                                                                                               SS.FVR
                                                                                                                              XFOSMR=
XGTSRE=
                                                                                                          000010
                                                                                                                         004
                                                                                                                                         000007
                          010 DSC:
010 FD:FID
B.CQUQ
          000060
                                          999146R
                                                          N.FOS =
003 N.PKSZ=
                                                                          000764
                                                                                                                         004
                                                                                                          000006
                                                                                                                                         000014
          000132
B.FEMA
                                                                          999929
                                                                                               SS.LEN
SS.STT
                                                                                                                              XHITSK=
XHLMER=
                                                                                                                                         000011
                                                                                                         000012
                                                                                                                         ййа
                                                          003 N.PKTS=
003 N.QURY=
B.FEMB
          000142
                          010 FD:FNB
                                          ававав
                                                                          000043
                                                                                                                         004
                                                                                                                                         000002
B.FEMC
          000152
                          010 FD.FVR
010 FD.LEN
                                                                          000031
                                                                                               START
                                                                                                                              XHOTSK =
XMSCHE =
                                                                                                                                         000010
                                                                                                         0005206
B.FFSA
          000202
                                          000010
                                                          003 N.SUNT=
                                                                         gagaga
                                                                                               ST.ASZ
ST.BSZ
                                                                                                          000020
                                                                                                                         006
                          010 FH.DBR
010 FH.DBS
B. FESB
          000212
                                           000026
                                                          011
                                                               OUTBL
                                                                          000410R
                                                                                                         000024
                                                                                                                         886
                                                                                                                              XOTS
                                                                                                                                         000003
B.FFSC
          000222
                                                                                               ST.BTC
ST.CSZ
                                          000022
                                                          011 OUTLOP
                                                                          991224R
                                                                                                         000000
                                                                                                                          006
                                                                                                                               XQTØ
                                                                                                                                         000001
                                                               PFL -
PRCERR
B. FMHR
          000172
                          010 FN.DHR
                                          000040
                                                          011
                                                                          000121R
                                                                                                         000036
                                                                                                                         006
                                                                                                                              XSULOA= · 000005
$CBTA · = · *******
B.FQLS
          000162
                          010 FN.EMA
                                          000012
                                                          011
                                                                          991356R
                                                                                               ST.HRL
ST.LEN
                                                                                                          000010
B.ESAZ
          000100
                          010 FH.EMB
010 FH.EMC
                                          000014
                                                               QE.RO1
                                                                          000144
                                                                                                         000044
                                                                                                                         886
                                                                                                                              sessess -= DMCCOR
B.FSBZ
          000102
                                                                                          007
007
                                                                                               ST.QRY
ST.QSZ
                                          000016
                                                          911
                                                                          999994
                                                                                                          000002
B<sub>4</sub>ESCZ
          000104
                          010 FH.FSA
010 FH.FSB
                                          ававая
                                                          011
                                                               Q.NQBK
                                                                          000000
                                                                                                                                                         014
                                                                                                          000034
                                                                                                                         006
                                                                                                                              事事事
                                                                                                                                         ANNANAB
B. HBLK
                                                          011
                                                               Q:NUHL
                                                                                              ST.SCH
ST.UHL
                                                                                                                         006 $$$ARG= 00000<del>2.</del>
006 $$$OST= 000010
                                          000002
                                                                          000002
                                                                                          007
                                                                                                         000040
                                                          011 0.SIZE
011 RCVCHR
B.HDOC
          000114
                          010 FN.FSC
                                          <u>вавава</u>
                                                                          000014
                                                                                          007
                                                                                                          000004
D.HRLP
B.HRLR
           000126
                               FH.LGQ
                           010
                                          000034
                                                                          000006R
                                                                                               STAXLE
                                                                                                         000014
          000122
                          010 FN.LGU
                                          000036
                                                          011
          000000
. ABS.
                         คคค
          001362
                         001
                                                                                                                                一一一一一多人不是我们的一个一个
SRCOFF
          000122
                         002
FDSCOF
          000010
                                             Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
DBSTAT: M 0.M1110 27-MAR-80 13:38 PAGE:13-2:
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SUSOFF: 000012: 005
STTOFF: 000014: 006
GSPLOF: 000014: 007
BSTOFF: 000072: 010
FNOFFS: 000044: 011
WNODDOF: 000010: 012
DNODOF: 000010: 013
$DPB$$$ 00010: 014
ERRORS: DETECTED: 0

VIRTUAL-MEMORY: USED: 3607 WORDS: (:15 FAGES)
DYNAMIC-MEMORY: 4916 WORDS: (:18 PAGES)
ELAPSED:TIME: 00:00:26

WSTAT.DBSTATZ-SP=C20:1JP-M.DBSTAT
```

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HRSTAT MOD Mill® 27-MAR-80 13:38 TABLE OF TENTS App

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10- 2. COLLECT-HOURLY STATISTICS.

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```
HRSTAT MACRO M1110 27-MAR-80 13:38 PAGE 10 Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
         1234567899
1112345678
16178
                                                                            .FITLE · HRSTAT · .SBTTL · COLLECT · HOURLY STATISTICS ·
                                                                             .MCALL GTIMSC, EXITSS, ROSTS, SDATS
                                                                            .GLOBL HRSTFG,LDAY,LHOUR
.GLOBL CHSTAT,CDSTAT,LHSTAT,LDSTAT
                                                                  DATA:
                                                              ;
TIMBUF: .BLKW-
SNDPKT: .BLKW-
CMD: .WORD-
.RAD50
            000000
000020
000052
000054
                                                                                        8.
13.
4
/STATS/
                                                                                                     :CURRENT-TIME-
                         000004
074741 077770
```

```
HRSTAT: M
COLLECT:H
                              0 M1110 27-MAR-80 13:38 PAGE 11
LY STATISTICS Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
             20
21
22
23
                     000060
                                                                                                             START:
                     000060
                                                                                                                                   GTIM$C. TIMBUF
                                                                                                                                                                                                                           :CURRENT.TIME
             24
                     000066
                                           005767
                                                                                                                                                                                                                          ;BRAN<u>CH</u>·<u>IF NOT</u>
; FIRST TIME THROUGH
;INIT TIME
                                                                 000000G
                                                                                                                                   TST
                                                                                                                                                        HRSTFG
1$
             25
26
                     000072
000074
                                           001010
                                                                                                                                   BHE
                                                                                                                                                         TIMBUF+G.TIDA,LDAY
TIMBUF+G.TIHR,LHOUR
                                                                  177794
                                                                                      природе
                                                                                                                                   MOV
MOV
                                           016767
             27
28
29
                      000102
                                                                    77700
                                                                                       000000G
                     000110
                                           005267
                                                                 000000G
                                                                                                                                   INC
                                                                                                                                                         HRSTFG.
                                                                                                                                                                                                                          :SHOW-INIT
              30
                      000114
                                           026767
                                                                 177666
                                                                                                                                   OMP
                                                                                      000000G-1$:
                                                                                                                                                         TIMBUF+G.TIHR,LHOUR
                                                                                                                                                                                                                          BRANCH IF HOUR TURNED OVER
             31
32
33
34
                      000122
                                           001003
                                                                                                                                   BNE
                                                                                                                                                        HTURN-
                     000124
                                                                                                                                   EXIT$S.
                                                                                                                                                                                                                          ; ELSE · NOTHING · TO · DO
                                                                                                                 HOUR TURNED OVER TIMBUF+6.TIHR, LHOUR
             35
36
37
38
                      000132 016767
                                                                 177650
                                                                                      000000G · HTURN:
                                                                                                             HTURN: MOV
; ACCUMULATE
                                                                                                                                                                                                                          ; NEW-HOUR
                                                                                                                                               ·HOURLY·STATS·
#CHSTAT,R0
                     000140
000144
                                           012700
012701
012702
061022
                                                                 000000G
                                                                                                                                   MOV
                                                                 000000G
                                                                                                                                                        #LHSTAT,R1
#CDSTAT,R2
                                                                                                                                   MOV
                     000150
              39
                                                                 000000G
              40
                      000154
                                                                                                                                                         (R0),(R2)+
(R0),(R1)+
(R0)+
                                                                                                                                   ADD
                                                                                                                                                                                                                          ; # · OF · BATCHES
              41
                     000156
                                            011021
                                                                                                                                  MOV
             42
43
                      000160
                                            005020
                      000162
                                                                                                                                                         (R0),(R2)+
(R0),(R1)+
                                           061022
                                                                                                                                   ADD
                                                                                                                                                                                                                          ; # · OF · QUERIES
             44
45
                     000164
000166
                                                                                                                                   MOV
                                                                                                                                               (RB): 
                                           005020
             46
47
                                                                                                             : ACCUMULATE
                      000170
                                           012703
                                                                 000010
                                                                                                                                                        #ST.LEN/4-1,R3
2(R0),2(R2)
                                                                                                                                   MOV
                     000174
000202
                                           066062
005512
              48
                                                                 000002
                                                                                       000002-
                                                                                                                                   ADD
              49
                                                                                                                                   ADC
                                                                                                                                                         (R2)
                                                                                                                                                        (RØ),(R2)
#4.R2
             50
51
52
53
55
55
56
57
58
                     000204
000206
                                           061012
062702
                                                                                                                                   ADD
                                                                 000004
                                                                                                                                  ADD
MOV
                     000212
                                           011021
                                                                                                                                                         (RØ),(R1)+
                                           005020
                                                                                                                                  CLR
MOV
                                                                                                                                                         (RØ)+
(RØ),(R1)+
                     000216
000220
                                           011021
                                           005020
                                                                                                                                   CLR
                                                                                                                                                         (RØ)+
                     000222
                                           077314
                                                                                                                                   SOB
                                                                                                                                                        R3.1s
                                                                                                                                                                                                                          ; DO - ALL - ENTRIES
                     000224
000232
                                           026767
001027
                                                                 177554
                                                                                      000000G
                                                                                                                                   CMP
                                                                                                                                                         TIMBUF+G.TIDA,LDAY
                                                                                                                                                                                                                         :BRANCH-IF DAY-TURNED-OVER
                                                                                                                                  BHE
                                                                                                                                                        DTURN
             60
              61
                                                                                                                                  PRINT-HOURLY STATS-ON-CONSOLE
             62
             63
64
                    000234
000240
000244
                                           012704
                                                                                                                                  MOV
                                                                                                                                                         #CMD.R4
                                                                                                                                                        #SHDPKT,R0
(R4)+,(R0)+
                                           012700
012420
                                                                 0000201
                                                                                                                                   MOV
              65
                                                                                                                                  MOV
             66
                     000246
                                           005001
                                                                                                                                  CLR -
                    000246
000250
000252
000254
000266
             67
68
                                                                                                                                                        R1.(R0)+
                                           000000
                                                                                                                                  HALT
             69
70
71
72
73
74
75
                                                                                                                                                        R4.SHDPKT
                                                                                                                                   SDAT$
                                                                                                                                  RQST$
EXIT$S
                                                                                                                                                        R4
                     000304
                                                                                                                                                                                                                          :ELSE DONE
                                                                                     ; DAY-TURNED-OVER
000000G-DTURN: MOV- T
                                          016767
                                                                                                                                                        TIMBUF+G.TIDA,LDAY
                                                                177466
                                                                                                                                                                                                                          : NEW DAY
                                                                                                            : ACCUMULATE DAILY STATS MOV #CDSTAT.R0
             76
                    000320
                                          012700
                                                                000000G
                                                                                           Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
```

The state of the s

MENN A LANGUAGO POR ALEXANDRA POR A

```
HRSTAT M
                O·M1110 27-MAR-80 13:38 PAGE:11-2:
 SYMBOL T
                                              Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
BITVAL = 000000
                                 B.HDOC
                                            000114
                                                            010 FH.EMB
                                                                             000014
                                                                                             011 R.QSGC=
                                                                                                             000015
                                                                                                                                              999994
                                                                                                                                   ST.: UHL.
BIT0
BIT1
           0000001
                                 B:HRLP
B:HRLR
                                                            010
                                                                  FN.EMC
                                            000126
                                                                             000016
                                                                                                  R.QSPC=-
                                                                                                             000014
                                                                                             011
                                                                                                                                    ST.XLT
                                                                                                                                              000014
                                                                                                                                                               MAG
                                            000122
                                                            010
                                                                 FN.FSA
                                                                             равава
                                                                                             01
                                                                                                   R.QSPN=
                                                                                                                                    SU. DRITE
                                                                                                                                              999994
                                 B.HRLW
B.HMBR
B(T10
           002000
                                            000124
                                                                  FH.FSB
                                                            010
                                                                             000002
                                                                                             011
                                                                                                  R: OSPR=
                                                                                                             000012
                                                                                                                                    SU.DON=
                                                                                                                                              000006
           004000
                                            000052
                                                            010
                                                                  EN.ESC
                                                                             000004
                                                                                             011
                                                                                                  R.QSTH=
SHDPKT
                                                                                                              000002
                                                                                                                              SU.IDL=-
SU.LOD=-
002-SU.SRC=-
                                                                                                                                              000000
BIT12
           010000
                                 B.HORY
B.OLSZ
                                            000232
                                                            010
                                                                  FH.LGQ
                                                                                                                                               000001
                                                                                                              ABBBBBBB
BIT13
           020000
                                            000106
                                                                 FH.LGU
FH.MFO
                                                                                                  SR.ARE
SR.ARS
                                                            010
                                                                             000036
                                                                                             011
                                                                                                                                              0000002
BIT14
           040000
                                 B.OMAE
                                            000234
                                                            010
                                                                                                                              002
002
002
                                                                                             011
                                                                                                                                   SU.SRR=
SU.XPD=
                                                                                                             000106
                                                                                                                                               000005
L:IT15
           100000
                                 B.QSPL
                                            000316
                                                                                             011
011
                                                            010
                                                                 FN.MHR
                                                                             999919
                                                                                                  SR.DAY
                                                                                                              000010
                                                                                                                                              000003
           000004
                                            000076
                                 B.QTTM
                                                            010
                                                                             000044
                                                                                                  SR DLT
                                                                                                                                   S.DABA=
S.DAEF=
                                                                                                             BBBB 12
                                                                                                                                              000006
           000010
BITS
                                 B.QUQF
                                            000056
                                                                 FH.QLS
FH.QRY
FH.SF0
                                                                                             011
011
                                                            010
                                                                             ававае
                                                                                                   SR.ECB
                                                                                                                              002
                                                                                                                                              000010
                                                            010
010
                                 BASEDB
                                            000010
                                                                                                                              002-5.DHEF=
002-S.DATN=
002-S.HRL-=
002-TIMBUF-
002-WN.NTF-
                                                                                                  SR.ECH
                                                                                                             000046
BITS
           000040
                                 B.SIZE
B.SNDF
                                            000772
                                                                                                  SR.ECL
SR.FIB
                                                                             000030
                                                                                             011
                                                                                                             000050
                                                                                                                                              000240
                                                            010
                                                                 FM.SF1
FM.SHD
                                            000012
                                                                             000032
                                                                                             011
                                                                                                             000012
                                                                                                                                              DODDOOR
                                 B.SSQ
B.SSQF
BITZ
           000200
                                                                             000042
                                                                                             011
                                                                                                  SR. GRE
                                                                                                             000100
                                                                                                                                                               012
012
012
BITS
           000400
                                                                                                                                              000004
                                            000050
                                                            010
010
                                                                 G.TIBA=
G.TICP=
                                                                             000002
                                                                                                   SR.GRS
                                                                                                             000072
                                                                                                                              002 - WN . NXT
                                                                                                                                              000006
                                 B.STAT
B.STTE
BIT9
           001000
                                            000044
                                                                             000016
                                                                                                                              002 WN.ROT
002 WN.SIZ
                                                                                                   SR.LEN
                                                                                                             000122
                                                                                                                                              000002
BS:CLS=
           000002
                                            000053
                                                                 G.TICT=-
G.TIDA=-
G.TIHR=-
                                                            010
                                                                             000014
                                                                                                              000066
                                                                                                                                              000010
000000
                                                                                                                                                              7012
7012
BS:DBU=
           0000004
                                 B. HDOC
                                            000110
                                                            010
                                                                             000004
                                                                                                                                  · WH. SRC
· WH. TYP
                                                                                                   SR.LIP
                                                                                                             000062
                                                                                                                              992
BS.INA=
           000000
                                 CDSTAT
                                            жжжысы
                                                                            РИРИРИЯ
                                                                                                   SR.MON
                                                                                                                              002
                                                                                                                                              ัดคิดคลิา
                                                                                                                                                               012
BS.OPH=
           999991
                                 CF:B0
                                            000070
                                                                  G.TIMI=
                                                                             000010
                                                                                                   SRINDO
                                                                                                                              002 - WORD0
002 - WORD1
                                                                                                             000042
                                                                                                                                              000000
BS.SRC=
           000003
                                 CF.B2
                                            000067
                                                                  G:TIMO=
                                                                            000002
                                                                                                   SR. NDS
                                                                                                                                              0000002
                                 CF.B4
CF.B6
BYTER =
           папапап
                                           000066
                                                                  G.TISC=
                                                                             000012
                                                                                                                              002 WORD2
                                                                                                   SR.HIN
                                                                                                             РИРИЗИ
                                                                                                                                              000004
BYTEi
                                                                  G.TIYR= 000000
HRSTFG= жжжжжжж G
                                            000065
                                                                                                   SR.HIP
                                                                                                             000022
                                                                                                                              002 · WORD3
                                                                                                                                           = . 000006
                                 CF.DR0= 000064
CF.DR1= 000063
BYTE2
           000002
                                                                                                  SR.SDB
SR.SRC
                                                                                                             000032
                                                                                                                              002 WORD4
                                                                                                                                              000010
                                                                 HTURN 000132R-
LDAY = жжжжж G
LDSTAT= жжжжж G
                                                                                                             000002
                                                                                                                                              999912
                                            жжжжжж G
BYTE4
           000004
                                 CHSTAT=
                                                                                                  SR.SUN
SR.TWS
                                                                                                                              002 WORD6
002 WORD7
                                                                                                             ававав
                                                                                                                                              000014
BYTE5
           000005
                                 CMD .
                                            000052R
                                                                                                             000056
                                                                                                                                              000016
BYTE6
                                 DBSLEN=
                                           000116
           000006
                                                                  SR. WSL
                                                                                                             000052
                                                                                                                              002 - WORD8
002 - WORD9
BYTE7
           000007
                                 DH.BF0
                                                            005 LHSTAT= ******* G
                                                                                                  SR.YR.
SR.1IN
                                                                                                             000004
                                                                                                                                              999922
                                           000004
BYTE8
           000010
                                 DH: BE 1
                                                                                                                              002 WRDVAL = 000024
002 XBATCH = 000013
                                                                                                             000024
BYTE9
BYTVAL
           000011
                                 DH.CTL
                                                            005 N
                                                                          - 0000002
                                                                                                   SR.1IP
                                                                                                             000016
           000012
                                 DH: DMC
                                            000010
                                                            005
                                                                 N.BFAC= 000004
                                                                                                                                                       TWE.
                                                                                                   SS.FID
                                                                                                             000002
                                                                                                                              004
004
                                                                                                                                  XDBLOA= 000004
XDBPRO= 000012
B.BSTA
           000054
                                 DH.FLG
                           010
                                            000006
                                                            005 N.BHGH= 000006
013 N.BTCH= 000004
013 N.BUFB= 004000
                                                                                                   SS.FNB
                                                                                                             000010
B: CHTX
                                DH.DCK
                                           000000
000004
           000046
                           ดาด
                                                                                                   SS.FVR
                                                                                                             000006
                                                                                                                              004 XDMCIN= 000006
004 XFOSMR= 000007
B.CQUQ
B.FEMA
           000060
                           010
                                                                                                  SS.LEN
SS.STT
                                                                                                             000012
                                                            013 N.BUFW= 002000
013 N.FOS-= 000764
013 N.PKSZ= 000020
N.PKTS= 000043
           000132
                           010
                                 DN. NXT
                                            ВВВВВВ
                                                                                                             ававава
                                                                                                                             004 XGTSRE= 000014
XHITSK= 00001-1-
B.FEMB
B.FEMC
           000142
                           010
                                 DH.ROT
                                            000002
                                                                                                  START.
ST.ASZ
                                                                                                             000060R
                                           000010
000312R
           000152
                           010
                                 DN.SIZ
                                                                                                             000020
                                                                                                                              996
                                                                                                                                  XHLMER = 000002.
XHOTSK = 000010
B. FESA
           000202
                                 DTURN
                                                                                                   ST. BSZ
                                                                                                             000024
                                                                                                                              006
B.FFSB
           000212
                                FD.FID
FD.FNB
FD.FVR
                                                            003 H.QURY=
003 H.SUHT=
                           010
                                            000000
                                                                            000031
                                                                                                   ST.BTC
                                                                                                             000000
                                                                                                                              996
                                                                                                                                   XMSCHE = · 000000
                           010
B.FFSC
           000222
                                            000006
                                                                                                                                         = 000003
= 000001
                                                                            000002
                                                                                                                                   XQTS
XQT0
                                                                                                   ST \cdot CSZ
                                                                                                             ававаза
                                                                                                                              006
B.FMHR
                                                                                                  ST.HRL
ST.LEN
                                            000004
                                                            003
                                                                 OF ROLE.
                                                                            000144
                                                                                                             000010
                                                                                                                              006
                           010
010
                                FD.LEN
FH.DBR
B.FQLS
           000162
                                            000010
                                                            003
                                                                                             007
                                                                                                             ййййй44
                                                                                                                              006
                                                                                                                                   XSULOA= 0000005
B.FSAZ
           000100
                                            000026
                                                            011 Q:NOBK
                                                                                             007
007
                                                                                                  ST.QRY
ST.QSZ
                                                                             аааааа
                                                                                                             000002
                                                                                                                              006
                                                                                                                                   $$$
B.FSBZ
                                                                                                                                           = · 000000R
                                                                                                                                                              014
                                                            011
011
                           010 FN.DBS
                                            000022
                                                                 Q.HUHL
                                                                             000002
                                                                                                                                   $$$0$T=.000000
$$$T1 =.000002
                                                                                                             000034
                                                                                                                              006
           000104
B. ESC2
                                                                 Q.SIZE
                                                                            000014
                                                                                             002
                                                                                                  ST.SCH
                                                                                                             000040
B. HBLK
                           010 FN.EMA
                                            000012
                                                            011
. ABS:
           000000
                          000
                          001
002
           000350
SRCOFF
           000122
                         003
004
EDSCOF
           000010
SUSOFF
           000012
DHROFF
          000012
                          คคร
STTOFF
QSPLOF
                          006
          000014
                          007
                                              Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3-
```

HRSTAT: MACRO:M1110 27-MAR-80 13:38 PAGE:11-3
SYMBOL:TABLE: Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
BSTOFF: 000772: 010
FNOFFS: 000044 011
UNODOF: 000010 012
DNODOF: 000010 013
\$DPB\$\$ 000004 014
ERRORS:DETECTED: 0

VIRTUAL:MEMORY:USED: 3092:WORDS: (:13 PAGES)
DYNAMIC:MEMORY: 3860 WORDS: (:14 PAGES)
TLAPSED:TIME: 00:00:20
HKSTAT:HRSTAT:-SP=E20:1]P:M.HRSTAT:

STATS: MACRO:M1110 27-MAR-80 13:39
TABLE:OF:CONTENTS: Apr

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10- 2. DISPLAY-SYSTEM STATISTICS.

```
STATS
                      0.M1110 27-MAR-80 13:39 PAGE-10
                                                              Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
                                                                                         .FITLE--STATS-
.SBTTL- DISPLAY-SYSTEM STATISTICS-
         1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
                                                                                         .MCALL RCVX$C.QIOW$S
                                                                                        .GLOBL CHSTAT, LHSTAT, CDSTAT, LDSTAT.GLOBL SCBTA, $DDIV, $CDDMG
                                                                         :
TILUN=5
TIEF=1
CNVT5=10.!BIT9!BIT10!24000
CNVT3=10.!BIT9!BIT10!14000
CNVT2=10.!BIT9!10000
CNVT2S=10.!BIT9!BIT10!10000
;
                             000005
000001
027012
017012
011012
```

Ī.,

```
STATS MACRO M1110 27-MAR-80 13:39 PAGE 11
DISPLAY SYSTEM STATISTICS Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
       RCVDAT: BLKW
RCVCMD: BLKW
            000000
                                                                                                ;RECEIVE-PACKET-
;COMMAND-CODE-
;#-OF-PARAM-CHARACTERS-
;PARAM TEXT-
                                                                                     2.
           000004
           000006
                                                            RCVCHR:
                                                                        .BLKW
           000010
                                                             RCVPRM:
                                                                                     22.
           000036
                                                             IOSTAT: .BLKW
           000042
                                                             DBLPVL: .BLKW
                                                                                                 ;DOUBLE-PRECISION-VALUE-TO BE-CONVERTED
                                                               MESSAGE - SKELETONS -
           000046
000046
                                                            LINE1:
                             102
                                         101
                                                     124
                                                                         .ASCII. /BATCHES:/
            000051
000054
                                         110
                                                     105
                             123
                                         072
                                                                                    5
            000056
000063
                                                            NBT:
                                                                         .BLKB
                            040
                                         040
                                                    040
                                                                         .ASCII
                            040
040
            000066
                                         040
                                                    040
            000071
       38
39
           000072
                                                                          BLKB.
                                                                                    12.
                        000040
                                                            SL1=:-LINE1
           000106
000111
000114
000117
                            040
105
107
120
                                         101
122
105
105
                                                     126
101
       40
                                                                         .ASCII. / AVERAGE PER BATCH/
                                                    040
122
101
           000122
000125
                            040
124
                                         102
                                         103
                                                     110
       41
42
43
44
45
46
47
48
                        000062
                                                            L1=:-LINE1
           000130
                                                            ĹINE2:
           000130
                            040
                                        040
                                                            .ASCII. /-
L2=:-LINE2
                        000002
           000132
000132
000135
000140
                                                            _INE3:
                                        125
111
                             121
122
123
                                                    105
                                                                         .ASCII. *QUERIES. DOC/
                                                                                                              DOC-IN- XLATE
                                                     105
                                        040
                                                    040
103
                                                                                                                                                                           ----
           000143
000146
                            104
057
                                         117
                                        040
                                                    040
117
                                                                                                                                                                            N7:4
           000151
000154
000157
                            040
103
                                        104
                                                    111
040
                            116
130
124
040
                                        040
114
105
           000162
000165
                                                    101
                                                    040
           000170
000173
000174
000177
                                        040
                                                    040
                            106
055
       49
                                                     101
                                                                        .ASCII. *FSA-A. FSA-B. FSA-C. QLS. SEARCH.TIME/*
                                                    040
123
102
                                        101
           000202
000205
000210
000213
000216
000221
                            040
101
                                        106
055
                            040
123
103
121
                                        040
101
                                                    106
                                                                                                                                                    TR. MARKEY ST
                                        040
114
                                                    949
123
                                                   Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
STATS: M D:M1110 27-M
DISPLAY:S EM:STATISTICS
                                  27-MAR-80 13:39 PAGE 11-1
                                                        Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
             000224
000227
000232
                               040
105
103
124
105
                                                          123
122
040
                                             040
                                             101
110
111
057
             000235
                                                           115
             000240
       50
51
52
53
                          000110
                                                                   L3=.-LINE3
             000242
000242
000245
                                                                   ĹINE4:
                                             040
040
040
                                                          040
                                                                                 .ASCII *
                                                                                                              UHL
                                                                                                                          HRL.
                                                                                                                                        TIME (S)
                                                                                                                                                         WORDS: WORDS*
                               040
                                                          040
040
             000250
000253
000256
000261
                                040
125
                                             110
040
                                                           114
040
                               040
040
                                                           122
                                              110
             000261
000267
000272
000275
                                             040
                                                           040
                                                          040
115
050
040
117
123
127
                                040
                                             040
                               124
105
123
040
                                              111
                                             949
                                             051
127
104
             000300
             000306
000311
                               122
040
                                             040
             000314
000317
                                                           104
                               040
117
123
127
104
040
        54
             000320
000323
                                             040
122
                                                           127
104
                                                                                .ASCII. * WORDS: WORDS: SU:(MM:SS)*
                                             040
117
123
123
050
072
051
                                                          040
122
             000326
                                                          040
125
115
123
             000334
             000337
000342
000345
                               040
115
123
             000350
       5567589661626646566777777777777778
                          000110
                                                                   L4=.-LINE4
             000352
000352
                                                                   ĹINE5:
                                                                                .BLKB
.BLKB
.BLKB
                                                                                             9.
8.
7
                                                                   QRY:
DUH:
             000363
000373
                                                                   DHR:
XTM:
FSA:
FSC:
GLS:
BRT:
             000402
000414
                                                                                              10.
                                                                          .BLKB.
.BLKB.
.BLKB.
.BLKB.
.BLKB.
                                                                                              77775
             000423
000432
             000441
             000450
                          000103
                                                                   _5=.-
                                                                                .EVEN-
                                                                                                                                                                                         OUTPUT - LINE - INDEX - TABLE
                         000046°
000130°
000132°
000242°
000352°
           000456
000462
000466
000472
                                                                                             LINE1,L1
LINE2,L2
LINE3,L3
                                        000062
                                                                                .WORD
                                                                   OUTBL:
                                       000002
000110
                                                                                .WORD
                                       000110
                                                                                .WORD
                                                                                             LINE4.L4
            000476
000502
                                       000103
                                                        000000
```

```
STATS MACRO M1110 27-MAR-80 13:39 PAGE 14 DISPLAY SYSTEM STATISTICS Approved For
                                                                 Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
       245
246
247
248
249
251
001506
252
001510
253
001512
255
001520
256
001520
257
001530
259
001542
                                                                                  CONVERT DOUBLE PRECISION VALUE TO ASCII.
                                                                                 R3=-ASCII-DATA-ADDRESS-
R4=-STATS-VALUE-INDEX-
                               060504
                                                                              DBLCVT: ADD.
                                                                                                             R5.R4
                                                                                                            R5.R4
(R4)+,Ri
(R4)+,Ri
(R4)+,R2+
ST.BTC(R5)+,R0+
$DDIV+
R1+,DBLPVL+
R2+DBLPVL+
#DBLPVL+R1
R3-R0
R2+
$EDDIMC
                                                                                                                                                            ; DOUBLE · PRECISION · DIVIDE ·
                               012401
011402
016500
                                                                                             MOV.
                                                                                                                                                            ; BY-BATCH-NUMBER
                                               000000
                                                                                             MOV.
                               010167
                                               176312
                                                                                             MOV.
                                                                                                                                                            ; DOUBLE PRECISION CONVERT. ..
       256 001524
257 001530
258 001534
259 001540
260 001542
261 001544
262 001550
263
264
                              010267
012701
010300
005002
                                              176310
0000421
                                                                                                                                                                 TO-ASCII-
                                                                                             MOV
MOV
CLR
CALL
RTN
                                                                                                             $CDDMG
                                                                                                                                                                                                  n: i
        265
                               0005641
                                                                                              .END
                                                                                                             START-
```

A STATE OF THE STATE OF STATS-- 375 M 0.M1110 27-MAR-80 13:39 PAGE:14-1 the state of the s Approved For Release 2005/07/25-CIA-RDP85-00514R000100030001-3 BITVAL = . 000000 B.HORY 010 FH.EMC-000016 011 Q.FDSC 007 ST.UHL 000004 007 ST.XLT 000014 007 SU.DBU= 000004 аааааал 996 000232 000106 000234 000316 BIT0 = 000001 BIT1 = 000002 B.QLSZ B.QMAP 010 010 FN.FSA FN.FSB 000000 Q.NQBK 000000 0.06 011 Q.NUHL 011 Q.SIZE 000002 000002 BITIO 010 010 FM.FSC FM.LGQ 002000 B. OSPL 000004 000014 007 SU.DON= 000006 BIT11 004000 B.QTTM 000076 000034 011 RCVCHR 999996R SU.IDL= 000000 SU.LOD= 0000001795 010 FH.LGU 010 FH.MFO 010 FH.MHR 010 FH.HMB BIT12 010000 B.QUQP 000056 000036 000024 011 RCVCMD 011 RCVDAT BIT13 BIT14 020000 B.SFDB SU.SRC= 000002 SU.SRR= 000005 MANAMAR 040000 B.SIZE B.SHDP 000010 011 RCVPRM-011 R.VXBA= 999772 BIT15 100000 SU.XPD= 000003 S.HRL = 000240 TIEF = 000001 TILUN = 000005 000006 000004 010 FH.QLS 010 FH.QRY 010 FH.SF0 010 FH.SF1 BIT2 -B.SSQ 000004 000006 011 R.VXTN= 000010 B.SSQF B.STAT SL1 SRT. SR.ARE SR.ARS BITZ 000020 011 011 011 равала 000044 000030 000450R BIT5 прирада BISTTE 000053 000032 002 TIOUT 002 TST 002 WN NTP 000114 001434R 000072R BIT6 BIT7 B.UDOC 000110 010 FN.SHD 000042 011 000106 000534R · жижжиж G 000200 CDS. FSA 000010 999994 012 BIT8 000400 CDSTAT: 012 012 012 012 012 012 FSB 000423R SR.DLT 000014 002 WH. HXT 002 WH. ROT CF.B0 = CF.B2 = CF.B4 = CF.B6 = CF.B6 BIT9 000070 ESC 000432R SR.ECB 000002 BS.CLS= BS.DBU= -000002 -000004 IOSTAT 000036R 002 WH.SIZ 002 WH.SRC 002 WH.TYP 002 WORDO 0000010 0000000 SR.ECH 000046 IO.WLB≔ LDS ****** GX-000550R SR.ECL SR.FIB 000066 000050 BS. INA= 000000 000065 . 0000001 000012 BS:OPH= 000001 CF.DR0= 000064 LDSTAT= жисконски 🗓 -SR.GRE 000100 BS:SRC= 000003 CF.DR1= 000063 LHS. 000520R 002-WORD1 002-WORD2 SR.GRS 000072 0000002 BYTE0 = жижжжж G 000046R ававава LHSTAT SR.LEH 000122 000004 BYTE I 000001 LINEI 002 · WORD3 002 · WORD4 SR.LIN 000066 000006 CHVT2 -- 011012 CHVT25 -- 013012 LINE2 BYTE2 000002 000130R SR.LIP 000062 = · 000010 = · 000012 BYTE3 000003 000132R SR. MON 000006 002 - WORDS 002 - WORD6 = · 000012 = · 000014 000242R 000352R BYTE4 000004 CHVT3 = CHVT5 = 017012 LINE4 SRINDO CHVT5 DBLCVT BYTE5 000005 LINE5 002 - WORD7 002 - WORD8 = 000016 = 000020 SR: NDS 000036 BYTE6 0000006 001270R 000062 001506R L00P5 SR.HIH 000030 000007 000010 BYTE7 DBLPVL L1 SRINIP = 0000022 L= 000024 000022 002-WORD9 BYTE8 L2 L3 DBSLEN= 000116 ≃ . 0000002 SR.SDB 002 · WRDVAL = 002 XBATCH= 000024 002 XBATCH= 000013 002 XDBLOA= 000013 002 XDBPRO= 000012 002 XDMCIN= 000006 = · 0000110 = · 000110 000011 DHR: DH:BF0 BYTE9 000373R SR.SRC SR.SUN SR.TWS 999992 BYTVAL 005 L4 000002 000000 B.BSTA B.CNTX 000054 010 DH.BF1 000004 005 L5 000103 000056 MVTSTG 000712. = 000002 000046 DH.CTL DH.DMC = 000062 000712R 010 ававава 885 SR.WSL 000052 B.CQUQ B.FEMA 000060 010 005 SR.YR SR.1IN 000004 002 · XFOSMR = · 000007 002 · XGTSRE = · 000014 005 N = 013 NBT 013 N.BFAC= 013 N.BHGH= 000132 002 XGTSRE = 000014 002 XHITSK = 000011 004 XHLMER = 000002 010 DH.FLG 000006 000024 B. FFMB 000142 010 DH.DCK 000000 000056R SR.1IP 000016 010 DN.HTP 010 DN.HXT 010 DN.ROT 010 DN.SIZ 010 DOLIN5 B.FEMC 000152 SS.FID SS.FNB 999994 000004 000002 B.FFSA B.FFSB 000202 000212 004 XHOTSK = 0000 004 XMSCHE = 000000 004 XGTS = 000000 004 XGTO = 000001 000006 000010 SS.FVR SS.LEN SS.STT 013 N.BTCH= 000004 013 N.BUFB= 004000 000002 000006 000010 001034R BIFFSC 888222 000012 B.FMHR 004 XQT0 = 000001 XSULOA= 000005 N. BUFW= 992999 999999 010 DUH: 010 FD.FID 010 FD.FNB 010 FD.FVR N.FOS = -B.FQLS 000162 000363R START B.FSAZ B.FSBZ 000100 999999 006 XTM- 000402R-006 \$CBTA-=-XXXXXXXX G 000020 ST.ASZ ST.BSZ 999929 003 N.PKTS= 003 N.QURY= 000043 000102 равава B.FSCZ B.HBLK 000104 000004 000031 006 \$CDDMG=-жижжжжж G 006 \$DDIV-=-жижжжж G 006 \$\$\$ =-000000R-ST.BTC 000000 003 N.SUNT= 011 OUTBL 011 OUTLOP 011 QE.RO1= 010 FD.LEN ST.CSZ ST.HRL 000120 000010 999992 000030 B: HDOO 000114 010 FH.DBR 000026 000456R 000010 014 B. HRLP 000126 ST.LEN ST.QRY 010 FN.DBS 000022 001414R 000044 006 \$\$\$ARG= 000002 B.HRLR B.HRLW 000122 010 FH.DHR 000144 006 \$\$\$0ST- 000010 006 \$\$\$T1 - 000000 006 \$\$ 000002 000124 EN. EMA 011 QLS 011 QRY Ø10 000012 000441R ST.QSZ 000034 B. HMBR 000052 010 FH.EMB 000014 000352R ST.SCH 000040 . ABS. ававав 000 001552 001 SRCOFF 000122 002

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STATS: MACRO-M1110 27-MAR-80 13:39 PAGE:13
DISPLAY:SYSTEM:STATISTICS: Approved For
                                            Approved For Release 2005/07/28: CIA-RDP85-00514R000100030001-3
     144
145
                                                      LINE:5
     147
                                                      R5=-STATISTICS-AREA-ADDRESS-
      148
     149
          001034
001040
                    012701
012700
112721
                               0003521
                                                    DOLINS: MOV-
                                                                         #LINE5.R1
                                                                                                        :CLEAR LINE 5 TO BLANKS:
      150
                               000103
                                                                         #L5,R0
#',(R1)+
                                                               MOV
          001044
                                                              MOVB
                                                    SOB RØ.1
          001050
                     077003
                                                                         R0.15
     153
                                                                         ST.QRY(R5).R3
R2
     154
          001052
                     016503
                                                              MOV
CLR
                               9999992
                                                                                                        ; QUERIES:
          001056
001060
                    005002
071265
     155
     156
                               000000
                                                              D \; I \; \forall
                                                                         ST.BTC(R5),R2.
                                                                                                        CALCULATE WHOLE NUMBER:
FORMAT WHOLE NUMBER
          001064
001066
                     010201
                                                               MOV
                                                                         R2,R1
      158
                               0003524
                    012700
                                                               MÖV
                                                                         #QRY,RØ
     159
          001072
                                                               MOV
                                                                         #CHVT3.R2
     168
          001076
                                                                         $CBTA-
          001102
                     112720
                               000056
                                                               MOVB
                                                                         #100..R3
                                                                                                        ; DECIMAL - POINT -
          001106
                    070327
                                                              MUL
                                                                                                        :CALCULATE FRACTION
     163
          001112
                     005002
                                                                         R2.
ST.BTC(R5),R2.
                    071265
010201
     164
          001114
                               000000
          001120
                                                              MOV
                                                                         R2.R1
                                                                                                        :FORMAT FRACTION
     166
                               011012
                    012702
                                                               MOV
                                                                          #CHVT2,R2
     167
168
          001126
                                                              CALL
                                                                         $CBTA:
     169
170
          001132
                     012703
                                                              MOV.
                                                                         #DIHLRS
                                                                                                        :DOC/UHL PER BATCH
          001136
                    012704
                                                                         #ST.UHL,R4
DBLCVT
                               000004
                                                              MOV-
     171
172
173
          001142
                                                              CALL
                                                                                                        ;CALCULATE AND FORMAT
                    012703
          001146
001152
                               000373
                                                              MOV-
                                                                         #DHR,R3
                                                                                                        DOC-HRL PER BATCH:
CALCULATE THE FORMAT
                                                                   **DHLX**A**
- DBLCVT-
TRANSLATE-TIME-IN-SECONDS-
- ST.XLT(R5).R2
- ST.XLT+2(R5).R3
                    012704
                               000010
                                                              MOV
          001156
                                                    CALL
; CALCULATE:
     176
177
                    016502
016503
                               000014
                                                              MOV
                                                                                                        ;XLATE · TIME · IN · TICS ·
          001166
001172
                               000016
                                                               MOV.
                    016501
                                                              MOV-
                                                                         ST.BTC(R5),R1
#60.,R1
                                                                                                        :DIVIDE-BY NUMBER-OF
     179
          001176
                    070127
071201
                                                              MUL
                                                                                                        : BATCHES TIMES TICKS/SEC #
      180
          001202
                                                                         R1.R2
#XTM.R0
          001204
001210
                    012700
010201
                                                                                                        :CONVERT-SECONDS-
     181
                               0004021
                                                               ΜÔΫ
                                                                                                                                   - - 1.50p
                                                              MOV
                                                                         R2,R1
                                                                                                        : TO-ASCII-
     183
          001212
001216
                    012702
                                                              MOV
                                                                         #CHVT3,R2
                                                               CALL
                                                                         $CBTA ... (R0)+
          001222
001226
001232
     185
                    112720
                                                                                                        DECIMAL POINT CALCULATE DECIMAL FRACTION
                                                              MOVB
                    070327
                               000144
                                                              MUL
                                                                         #100.R3
     187
                    005002
071227
                                                                                                           OF SECONDS
          001234
                               000074
                                                              DIV
                                                                         #60..R2
     189
          001240
001242
                    010201
                                                                         R2,R1
                                                                                                        ;CONVERT.FRACTION.TO ASCII.
     190
                    012702 011012
                                                              MOSA
                                                                         #CNVT2,R2
     191 001246
                                                              CALL
                                                                         $CBTA-
                                                    CONVERTINEXTIA VALUES

MOV #4.-(SP)

MOV R5.R4
     193 001252
                    B12746
                               000004
                                                                                                        : COUNT
     194
195
         001256
001260
                    010504
                                                                                                        :POINT.TO.FIRST.STATS.VALUE.
                    862784
                               000020
                                                              ADD
                                                                         #ST.ASZ.R4
                                                                                                        START OF OUTPUT DATA
DIVIDE BY NUMBER OF BATCHES
         001264
001270
001272
001274
     196
197
                    012700
                               000414
                                                                         #FSA,RØ
                                                              MOV
                                                                                                                                                    #!
                                                              MOV
MOV
                                                                         (R4)+,R2
(R4)+,R3
                    012402
                                                    L00P5:
     198
                    012403
071265
                              000000
                                                              DIV
                                                                         ST.BTC(R5),R2
                                                                                                                                                         , 1
    200 001300
                    010201
                                            Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
```

```
0.M1110 27-MA
EM.STATISTICS
                              27-MAR-80 13:39 PAGE:13-1
STATS: M
DISPLAY:S
                                                  Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
     201 001302
202 001306
203 001312
                       012702 027012
                                                                                    #CHVT5,R2
                                                                        MOV
                                                                        CALL
                                                                                                                                                      100
                                                                                    $CBTA
                       062700
                                   000002
                                                                                    #2,R0
(SP)
                                                                                                                        :TWO SPACES
                                                                        ADD.
     204 001316
205 001320
                       005316
001363
                                                                        DEC
                                                                                                                        :LOOP 4 TIMES
                                                                       BHE
                                                                                    1.00P5
                                                           ST. (SP)+ :CLEAN_STACK;
CALCULATE-SEARCH-TIME-IN-MINUTES-AND-SECONDS-MOV-ST.SCH(R5).R2-SECONDS-MOV-ST.SCH+2(R5).R3
MOV-ST.SCH+2(R5).R3
     206
           001322
                       005726
      207
      208 001324
                       016502
                                   000040
     209 001330
210 001334
                       016503
                                    000042
                                                                                                                        :DIVIDE BY NUMBER OF BATCHES
:R2 = SECONDS PER SEARCH:
:R3 = REMAINDER
                       016501
                                   000000
                                                                        MOV
                                                                                    ST.BTC(R5),R1
           001340
                       071201
                                                                                   R1.R2
                                                                       DIV
     213 001342
214 001344
215 001346
                       010203
                                                                                                                       #R3 = REPHITABLE :

#R3 = SECONDS PER SEARCH :

#R3 = SECONDS PER SEARCH PER SU
                                                                        MOV
                                                                                    R2,R3
                       006203
                                                                       ASR
CLR
                                                                                   R3
R2
                       005002
      216 001350
                                                                                                                       ;R2:=:MINUTES:
;R3 =:SECONDS:
;CONVERT:MINUTES:TO:ASCII:
                       071227
                                   000074
                                                                       DIV
                                                                                    #60..R2
     217
     218
           001354
                       012700
                                   000450
                                                                       MOV
                                                                                    #SRT.RØ
     219
220
221
222
          001354
001360
001362
001366
001372
                       010201
012702
                                                                       MOV
                                                                                   R2,R1
#CHVT2S,R2
                                   013012
                                                                        MOV.
                                                                        CALL
                                                                                    $CBTA-
                       112720
                                   000072
                                                                                   #::,(R0)+
R3.R1
                                                                        MOVB
                                                                                                                        :COLON:
     223
224
           001376
001400
                       010301
012702
                                                                        MOV:
                                                                                                                        :CONVERT SECONDS TO ASCII
                                   011012
                                                                                    #CHVT2,R2
                                                                        MOV
     225
226
227
           001404
                                                                       CALL
                                                                                    $CBTA.
    227
228
229 001410
230 001414
231 001416
232 001422
233 001422
234 001426
235
236 001430
237
                                                              OUTPUT: THE: 5
                                                                                  DATA - LINES
                       012702
012200
                                   0004561
                                                                                    #OUTBL,R2
                                                                                                                       ;LINE-ADDRESS-AND-LENGTH;ADDRESS-
                                                           OUTLOP: MOV-
                                                                                    (R2)+,R0
1$
                       001404
                                                                       BEQ
                                                                                                                       :DONE IF
                                                                                                                                    ZERO
                       012201
                                                                                    (R2)+,R1
                                                                       MOV
                                                                       CALL
                                                                                    TIOUT
                                                                                                                        ;OUTPUT
                       000772
                                                                       BR
                                                                                    OUTLOP.
                                                                                                                                                           000167
                                  177130
                                                           1$:
                                                                       JMP.
                                                                                   START-
                                                                                                                       ; DONE
     237
238
239
                                                                                                                                                                             \partial_{x} \not\preceq
                                                              OUTPUT-A STATISTICS-LINE
     240 241
           001434
                                                                       QIOW$S: #IO:WLB,#TILUN,#TIEF,,#IOSTAT,,<R0,R1,#40>
     242
243
           001504
                                                                       RTN.
```

- '- # " - ". ·

```
STATS: MACRO:M1110 27-MAR-80 13:39 PAGE:11-2: DISPLAY:SYSTEM:STATISTICS: Approved For Release 2005/07/28 : CIA-RDP85-00514R000100030001-3
          79
80
81
82
                                                                                             STATISTICS TYPE STRINGS
          81
82 - 000504
000507
000512
000515
000523
000526
000526
000531
4 000534
000537
000542
000542
000553
000553
000553
000556
                                          103
122
124
117
040
114
124
117
                                                            125
                                                                                        CHS:
                                                                           122
116
110
122
040
123
110
122
125
105
040
131
040
131
                                                                                                           .ASCII. /CURRENT.HOUR/
                                                           105
040
125
040
101
040
125
103
122
124
101
040
114
124
101
                                                                                        LHS:
                                                                                                           .ASCII- /- LAST-HOUR/
                                          040
122
116
104
040
040
123
104
                                                                                        CDS:
                                                                                                          .ASCII. /.CURRENT.DAY/
                                                                                        LDS:
                                                                                                          .ASCII. Z.
                                                                                                                                    LAST DAY/
          86
```

```
STATS: M 0:M1110 27-MAR-80 13:39 PAGE:12:
DISPLAY:S EM:STATISTICS: Approved For
                                                                                       Approved For Release 2005/07/2 CIA-RDP85-00514R000100030001-3
             88 000564
                                                                                                        START:

RCVX$C .RCVDAT : GET PACKET:

PARSE TYPE OF STATS - SET UP POINTER TO PROPER STATS AREA RESERVED WOV #CHSTAT RS RESERTED ADDRESS RESERVED FOR STATS STRING RESERVED.
                                                                                                        START:
            89
                   000564
                   000572
                                        012705
012703
                                                             0000000G
000504°
            91
           92
93
                   000576
                                         022767
                                                             000002 177176
                                                                                                                              CMP
                                                                                                                                                   #2,RCVCHR
                                                                                                                                                                                                                                                                                   ENTRY TEXT
            94
                   000610
                                         001040
                                                                                                                             BHE
                                                                                                                                                  MVTSTG
                                                                                                                                                                                                                 CURRENT HOUR IF HO PARAM
BRANCH IF CURRENT HOUR
           95
96
                                                             044103 177170
                   000612
                                                                                                                            CMP
BEQ
                                                                                                                                                  #"CH.RCVPRM-
MVTSTG
                                         022767
                   000620
000622
                                        001434
012705
            97
                                                             000000G
                                                                                                                             MOV
                                                                                                                                                                                                                  ;BRANCH-IF LAST-HOUR
           98
99
                   000626
                                         012703
                                                                                                                             MOV
                                                                                                                                                  #LHS.R3
#"LH.RCVPRM
                   000632
                                         022767
                                                             044114 177150
                                                                                                                             CMP
          iññ
                   000640
                                         001424
                                                                                                                             BEQ
                                                                                                                                                  MVTSTG
                   000642
                                                             000000G
000534'
          101
                                        012705
012703
022767
                                                                                                                             MOV
                                                                                                                                                   #CDSTAT,R5
                                                                                                                                                                                                                 :BRANCH · IF CURRENT · DAY
                   000646
000652
                                                                                                                             MOV
                                                                                                                                                  #CDS.R3
                                                             042103 177130
                                                                                                                             CMP
                                                                                                                                                  #"CD.RCVPRM-
MVTSTG
                                        001414
012705
          194
                   000660
          105
                    000662
                                                             000000G
                                                                                                                                                  #LDSTAT,R5
#LDS,R3
#"LD,RCVPRM-
                                                                                                                             MOV
                                                                                                                                                                                                                 ; BRANCH · IF LAST · DAY ·
                   000666
000672
                                        012703
022767
          106
                                                              000550
           107
                                                              042114 177110
                                                                                                                             CMP
          1BB
                   000700
                                         001404
                                                                                                                             BEQ
                                                                                                                                                  MVTSTG.
          109
                   000702
                                         012705
                                                              BERREARS
                                                                                                                                                  #CHSTAT,R5
#CHS,R3
                                                                                                                             MOV
                                                                                                                                                                                                                 :CURRRENT-HOUR-IF
          110
                   000706
                                        012703
                                                              0005041
                                                                                                                             MOV
                                                                                                                                                                                                                         BAD PARAMETER
          112
113
114
                                                                                                             R5=ADDRESS-OF-STATS-TABLE
                                                                                                            LINE · 1
          115
         116
117
                   000712
000716
                                        012704
012702
                                                              9999224
                                                                                                                                                  #TST,R4
                                                                                                                                                                                                                 ;MOVE-STATS-TYPE-TO-LINE-1
                                                              000014
                                                                                                                                                  #12.,R2.
(R3)+,(R4)+
                                                                                                                             MOV
          118
                   000722
                   000724
                                        077202
                                                                                                        SOB R2,1$; NUMBER OF BATCHES
          129
         121
                   000726
                                                              000056*
                                                                                                                                                  #MBT.RØ
                                                                                                                            MOV.
                   000732
000736
                                        016501
                                                             равава
                                                                                                                             MOV
                                                                                                                                                  ST.BTC(R5).R1
          123
                                         012702
                                                             027012
                                                                                                                             MOV
                                                                                                                                                   #CHVT5.R2
          124 000742
                                                                                                                                                  $CBTA.
          125
         126
127
                                                                                                            SEE-IF-ANY-STATS-FOR-THIS-TIME-PERIOD
TST-ST.BTC(R5)
BNE-DOLIN5
         127 000746
128 000752
                                         005765
                                                             000000
                                                                                                                                                                                                                 :CONTINUE - IF - THERE
                                                                                                                                                                                                                                                                                     WITHOUGH THE STATE OF THE STATE
                                         001030
         129
130
                   000754
                                                             042103 177026
                                                                                                                             CMP
                                                                                                                                                  #"CD, RCVPRM-
                                                                                                                                                                                                                 ;CURRENT-DAY?-
                   000762
                                         001003
                                                                                                                             BNE
                                                                                                                                                                                                                 :NO:
          131
132
                 000702
000764
000770
000772
                                                             000000G
                                                                                                                                                  #CHSTAT,R5
                                                                                                                                                                                                                 YES - TRY CURRENT HOUR
                                                                                                                             MOV
                                                                                                                                                 3$
#"LD,RCVPRM-
                                         000406
                                                                                                                             BR
          133
134
                                         022767
                                                                                                                             CMP
                                                                                                                                                                                                                 ;LAST-DAY?
                                                                                                                                                                                                                 ; CONTINUE IF NEW TIME
                                         001005
                                                                                                                             BHE
                                                                                                                                                  4$
         135 001002
136 001006
                                        012705
005765
                                                              000000G
                                                                                                                             MOV
                                                                                                                                                  #LHSTAT,R5
                                                                                                                                                 ST.BTC(R5)
DOLIN5
                                                             000000
                                                                                                        3$:
                                                                                                                             TST
         137
138
                  001012
001014
                                        001010
                                                                                                                             BHE
                                                                                                                                                                                                                 PERIOD HAS STATS
ELSE JUST OUTPUT
FIRST LINE
                                                             000046
                                                                                                                                                  #LINE1,R0
#SL1,R1
TIOUT
                                         012700
                                                                                                        4$;
                                                                                                                             MOV
         139 001020
                                        012701
                                                             000040
                                                                                                                             MOV
          146
                                                                                                                            CALL
                                        000167
                                                             122530
         141
                  001030
                                                                                                                             JMP
                                                                                                                                                                                                                 :AND FINISH
```